# Application Guide

**vehicle identification**

**people identification**

# Revolutionize Your Security

Nedap is the leading specialist in systems for long-range identification, wireless vehicle detection and city access control. We focus on identifying people and their vehicles without delaying them. This is how we empower security, parking and traffic management systems all over the world. Millions of professionals trust Nedap technology to support them, whether that is to access buildings, to drive into secured perimeters, or to find a parking spot. By combining cutting-edge technology with decades of experience, that is how we secure the flow of vehicles and people.

**90+ years**
**as an establishment**

**30+ years**
**experience in RFID**

**HQ**
**based in Groenlo, Netherlands**

**Seven**
**offices worldwide**

# TRANSIT

# LPR Lumo

## nedap
### Ecosystem

# uPASS Target

# uPASS Reach

CUSTOMIZE YOUR BUSINESS

# Surface Lot & Garage Parking

## Using Passive uPASS UHF Technology

**Cost Effective Solution:**

- Absolute best value for high volume. Easy to implement, compatible with existing access control systems.

**Automated Vehicle Identification for Parking Access:**

- Parking garages
- Parking lots
- Gated areas

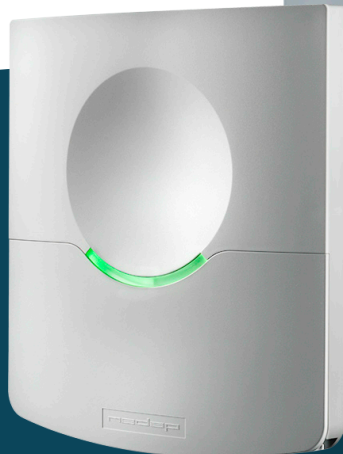**Enhances User Experience by Offering Long Read Range:**

- uPASS Target: Hands free access - up to 50 feet (33 ft. optimal)
- uPASS Reach: Multi-lane applications - up to 23 feet (16 ft. optimal)

**Extensive Portfolio of Tags for Every Situation:**

- Hang Tags
- WindshieldSticker Tags - interior and exterior
- Exterior Heavy Duty Tag
- UHF cards

**uPASS Target – up to 50 ft.**

**uPASS Reach – up to 23 ft.**

# Surface Lot & Garage Parking

## Passive Solutions By Nedap

**Mounting Accessories:**

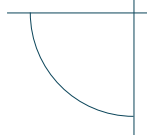Wall mount comes in the box with reader.

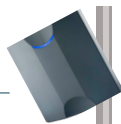9217371 uPASS Target Reader
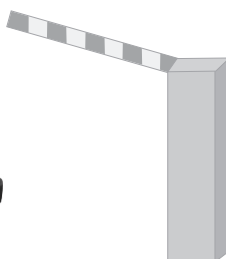9218335 uPASS Target Weather Hood
5626595 uPASS Target Pole Mount Kit

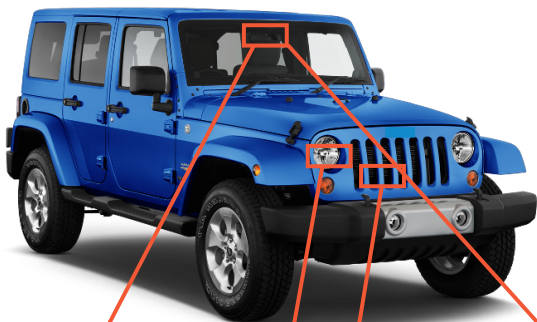Reader angled down and across 45 degrees.

Best practice is to mount the reader 4-6 ft. above the highest tag placement.

8.5 - 10 ft.

*New Product!*

### Windshield Sticker Tags

- Cost Effective
- Long Range (Passive)
- Inside Application
- Special Order Tags Available

### External Tags

- Metalized Content Workaround
- Exterior Mounted Sticker Tag
- Heavy Duty

### Hang Tags

- Moveable
- Visitor Management
- Campus Parking
- Customization Available

### Cards

- ISO & Combi Options
- Moveable
- Dual Technology in a Single Credential

# Why Customize?
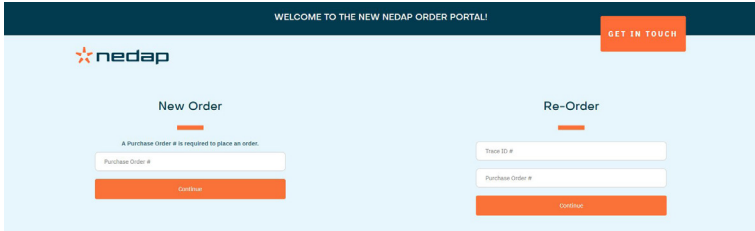
## What Are You Waiting For?

- Brand Visibility
- Personalized
- Enhanced Security
- Streamlined Operations
- Professional Image
- Improved Experience
- Hang Tags
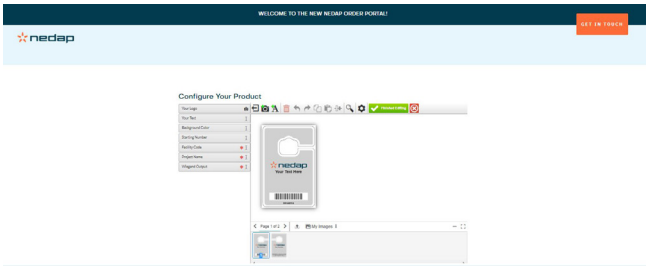- Sticker Tags

# Customization Made Easy

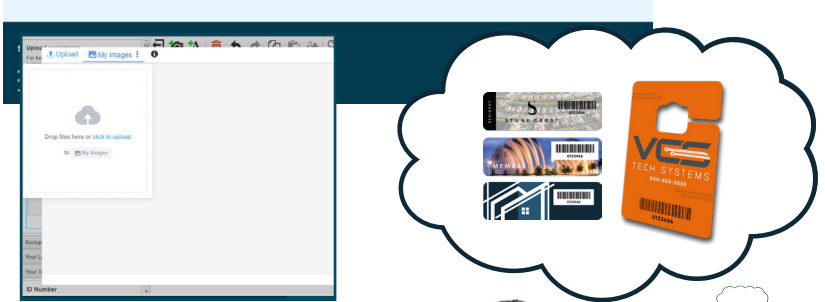## Your Business, Your Logo, Your Narrative
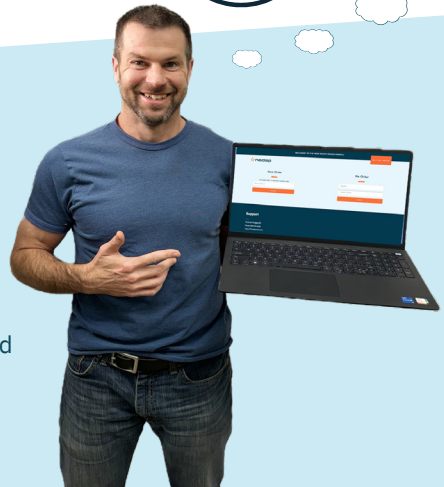
**Login**



**Upload**



**Design**



## What You've Been Waiting For!

Revolutionize Your Business starting at the gate by creating customized Nedap RFID hangtags and sticker tags tailored with your narrative.

# Emergency Vehicles & Industrial Equipment

## Using Active TRANSIT RFID Technology

### Vehicle Identification that Exceeds All Expectations:

- Absolute best solution for large industrial sized vehicles
- Recognition at speeds up to 125mph
- Easy to implement
- Compatible with existing access control systems

### Simultaneous Vehicle and Driver Identification:

- Booster technology allows for both vehicle and driver IDs (Dual Authentication)

### Automated Vehicle Identification for Secure Access:

- Performs well under harsh environmental conditions
- Robust 2.45GHz signal

### Enhances User Experience by Offering Long Read Range:

- Hands free access - up to 50 feet (33 ft. optimal)

### Extensive Portfolio of Tags for Every Situation:

- Window Button
- Window Button with switch
- Prox or Smartcard Booster
- End2End Booster
- Exterior Heavy Duty Tag
- Compact Tag

# Municipalities

## Active Solutions by Nedap

### Mounting Accessories:

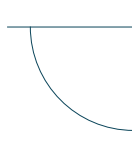Wall mount comes in the box with reader.

9215689 TRANSIT Ultimate Reader
9218327 TRANSIT Ultimate Weather Hood
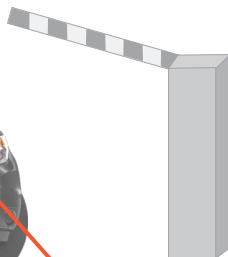5626595 TRANSIT Ultimate Pole Mount Kit

Reader angled down and across 45 degrees.

Best practice is to mount the reader 4-6 ft. above the highest tag placement.

8.5 - 10 ft.
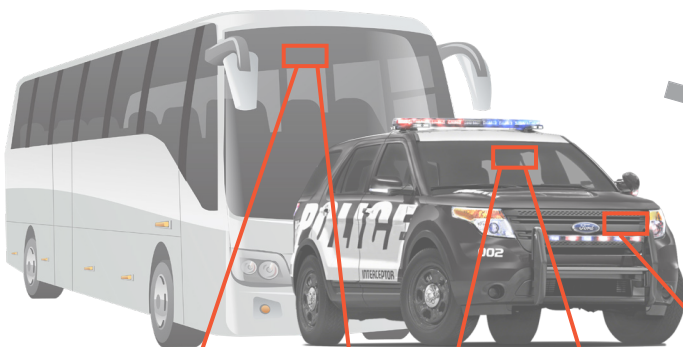
### Window Buttons

• Always on or Button Activation Options
• up to 40 ft. read range
• up to 10 year lithium ion battery life

### Prox & Smartcard Boosters

• Dual ID or Single ID options (Prox Boosters)
• up to 40 ft. read range
• AAA battery powered
• Smartcard Boosters read a portion of CSN

### End2End Booster

*New Product!*

• Supports HID SEOS, iCLASS, Elite Keys, SEOS Mobile ID (Android only)
• up to 33 ft. read range
• Exisiting Applications Upgradeable with Tab Board Purchase

### Exterior Heavy Duty Tag

• Exterior Mount
• up to 60 ft. read range
• ATEX Rated
• Mountable directly to metal
• up to 10 year lithium ioin battery life

# Visitor Management & Secondary Parking Access

## Using LPR Technology

### All-In-One License Plate Camera:
- No additional software required
- Easy to implement
- Can be used as a stand alone or is compatible with exisiting access control systems
- Supports industry-standard communication systems

### Back-up Parking Access:
- LPR is used to back-up existing RFID systems
- Can be used for dual authentication

### Enhances User Experience:
- Barrier-controlled and free-flow applications
- Uses plates for credential
- 8 to 33 feet read range
- Identification speeds up to 100mph
- Tamper notifications available

### Gateless Parking Access:
- Visitor management
- Detects vehicle direction

# Convenient Parking

## Nedap LPR LUMO Solution

**Mounting Accessories:**

Reader comes with pole mounting kit.

9986138 LUMO Reader

Reader should not be angled more than 25 degrees up and down or side to side.

Ideal installation placement for the LUMO is at bumper height (2 ft. height) about 6-9 ft. behind the barrier.

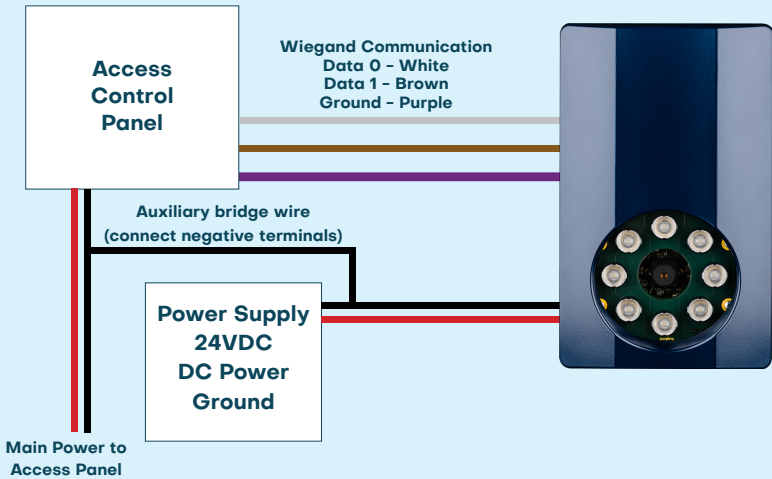Max Height: 14 ft.

**Optimal Read Zone 8 – 33 ft.**

With states that don't require the front plate, you can set the reader to point at the back of the vehicle, but you have to have enough of a lane to get the read between 8 and 33 ft. for detection.

# Application Note

## TRANSIT, uPASS, and LUMO Grounding

**Access Control Panel**

**Wiegand Communication**
Data 0 - Green
Data 1 - White
Ground - Black

**Auxiliary bridge wire needed for proper grounding**

**Linear Power Supply 24VDC 2-3 Amp**

**Main Power to Access Panel**

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**Access Control Panel**

**Wiegand Communication**
Data 0 - White
Data 1 - Brown
Ground - Purple

**Auxiliary bridge wire (connect negative terminals)**

**Power Supply 24VDC DC Power Ground**

**Main Power to Access Panel**

# Product Verticals

| Applications | uPASS (900MHZ) | TRANSIT (2.45 GHZ) | LUMO |
|---|---|---|---|
| **Product Line** | | | |
| Military | | ●● | |
| Airport | ● | ●● | |
| Government | ● | ●● | |
| Parking | ●● | ●● | ●● |
| Industrial | ● | ●● | ● |
| High-End Vehicles | ● | ●● | ●● |
| Transportation & Logistics | ● | ●● | ● |
| Mining | | ●● | |
| HOA/Gated Community | ●● | ● | ●● |
| Education | ●● | ● | ● |
| Healthcare | ●● | ● | ● |
| Condominiums | ●● | ● | ●● |
| Multi-Tenant | ●● | ● | ●● |
| People/Door Access | ● | ● | |
| Arenas | ●● | | ● |
| Car Wash | ●● | | ● |
| ● Commonly used vertical fits for Nedap products ●● Go to Product Line | Tag Type: Passive | Tag Type: Semi-Active | Tag Type: License Plate |

# Projects to Note

**Utility Companies**
Marathon Petroleum Canton, OH
Kansas City Power & Light
Dominion Energy Richmond, VA

**Sport Venues**
Lucas Oil Stadium (Indianapolis Colts)
WWE Corporate Facility
Gillette Stadium (New England Patriots)

**Transportation**
Alaska Department of Transportation
Des Moines (IA) Transit Bus System
Oregon Department of Transportation

**Airports**
Ottawa International Airport
Cincinnati Airport
Taxi Management (LAX)

**Corporate Facilities**
ESPN, Inc Headquarters
Bill Gates Foundation
Toyota Manufacturing

**Education**
Duke University Parking Facilities
Stanford University
Yale University Enforcement

**Government & Military**
Department of Homeland Security (Buffalo, NY)
Fort Bragg Military Facility (Fayetteville, NC)
Kansas City IRS Entrance
Alaska DOT

**Casinos/Luxury Residential**
Palace Casino (Las Vegas, NV)
Panorama Towers (Las Vegas, NV)
Oklahoma City

**Commercial Complex**
Eaton Center (Toronto) - Largest TRANSIT Project in the World

**Tuxen & Associates**
Business Journey Partners

# Serving our Client Nedap in the Americas

## Contact Info
### Phone: 417-339-7368

**Press 1 for Shipping Department**
**Press 2 for Sales Department**
**Press 3 for Technical Assistance**

## Purchasing

**You can obtain pricing from our Distribution Partners.**

(List available upon request.)

If you have direct pricing, POs must be submitted through: **orders-ids-us@nedap.com**

- All items ship out of Chicago area.
- Normal Stock items have a normal lead time of 3-4 days.
- Special Order items have a lead time of 4-6 weeks once all proper information is received.

### ✴ Tracking Information:

For tracking or status of a PO, please email with PO # in subject line to: **orders-ids-us@nedap.com**

# Schedule a Training

**Scan the QR Code and Help us Tailor a Training to Fit Your Needs**

## Discovery Sessions

- Who Is Nedap?
- The Nedap RFID Ecosystem
- Installation Best Practices
- Broad Sales & Technical Training
- Nedap, A Perfect Fit For Your Business
- Live Personalized Virtual Training

## Deep Dive Sessions

- Follows A Discovery Session
- Project Specific Support
- Additional Large Project Guidance

**Scan Here to Schedule a Discovery Session and find out how we can help grow your Business with Nedap!**

# Thank You

Need more information? Check our portal.
Scan the QR Code.