WOX relay



Autonomous Logistics,
Built for Real Operations.

Meet WOX relay

an electric, autonomous delivery platform built for the future of logistics. Engineered for **safety, efficiency, and scalability**, it optimizes movement everywhere from busy city streets and **campuses to warehouses and industrial zones.**



WHY LOGISTICS NEEDS
A NEW VEHICLE CLASS

E-commerce growth, urbanization and higher customer expectations are putting pressure on today's logistics. Traditional vehicles and operations can't keep up.



Rising Operational Costs in Last-Mile and On-Site Transport

Traffic, re-deliveries, and low vehicle utilization drive costs higher while margins get tighter.

Last-mile can account for up to 53% of total logistics cost.

DHL, 2024



Driver Availability and Shift Sustainability

Driver shortages and shift turnover threaten service reliability and make scaling difficult.

Over 3 million driver positions could be unfilled globally by 2028.

IRU, Driver Shortage Report 2023

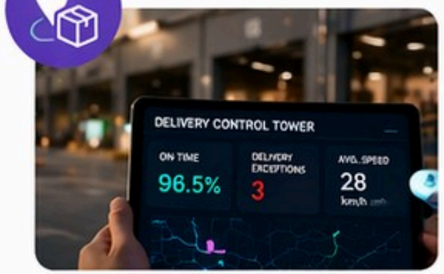


Emission Pressure and Low-Carbon Expectations

Cities and customers demand cleaner operations and measurable progress toward net zero.

Transport is responsible for ~24% of global CO2 emissions.

IEA, Global Energy Review 2023

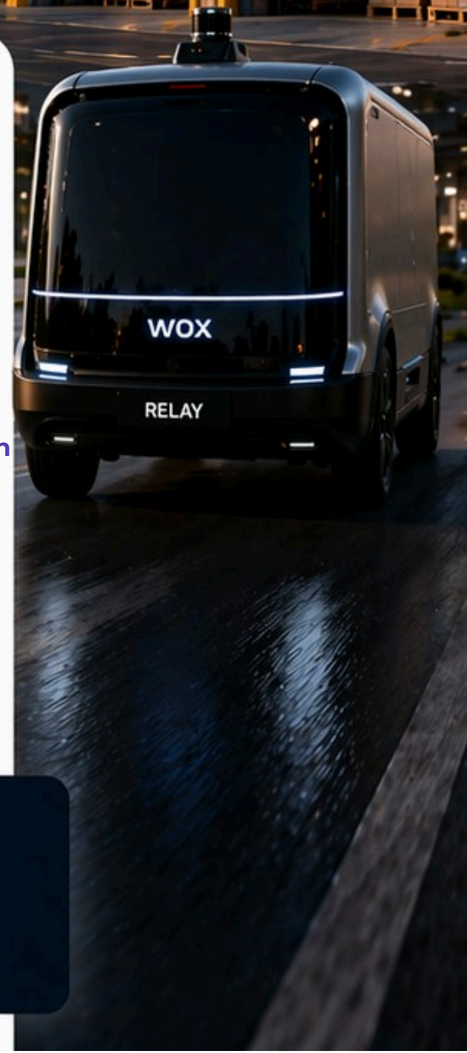


Need for Speed, Traceability and Operational Standardization

Customers expect faster delivery, full visibility and consistent service quality.

76% of consumers expect real-time tracking and delivery updates.

PwC, Future of Logistics Survey 2023



THE RESULT

Logistics needs a new vehicle class that is safer, cleaner and more efficient.
One that can operate autonomously, work consistently, and scale sustainably.

WOX Relay is built for that future.

WOX relay

BUILT TO DELIVER. ENGINEERED TO LAST.

WOX Relay brings a new standard to urban logistics with its reliable, adaptable and **future-ready architecture.**



01

Automotive-grade reliability

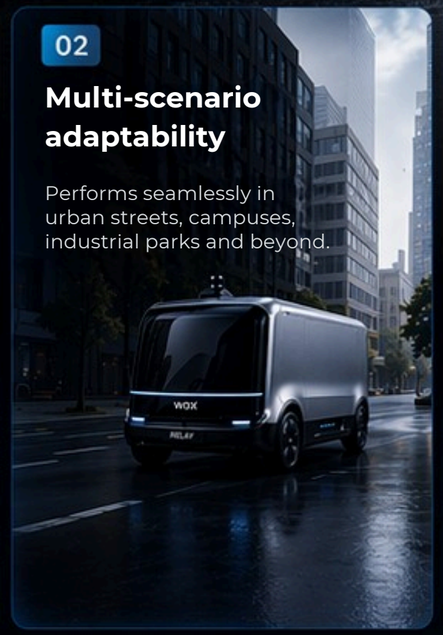
Built with proven automotive standards for consistent performance and peace of mind.



02

Multi-scenario adaptability

Performs seamlessly in urban streets, campuses, industrial parks and beyond.



03

Electric high-voltage platform

High-efficiency electric architecture delivers powerful output, fast response and zero emissions.



04

Safety redundancy

Multiple layers of protection safeguard people, cargo and operations.



05

Cargo-body customization

Flexible configurations fit different industries and logistics needs.



06

Long-life operational durability

Engineered for extended lifespan and lower total cost of ownership.



WHAT WOX relay DELIVERS

WOX Relay turns urban logistics challenges into measurable value with efficiency, predictability, safety and scalability.



OPERATIONAL EFFICIENCY

Optimized duty cycle for repetitive route tasks



MORE DELIVERIES
LESS DOWNTIME

PREDICTABLE COST BASE

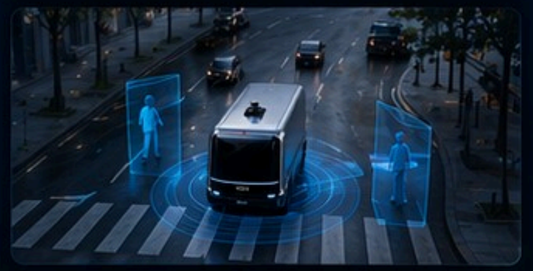
More predictable operating costs through electric architecture and driverless operation



LOWER TCO
STRONGER BUSINESS CASE

SAFETY BY DESIGN

Sensing, braking, monitoring, and mission control architecture



BUILT-IN PROTECTION
TRUSTED OPERATIONS

SCALABLE DEPLOYMENT

Diverse industry and body variations on a single platform



ONE PLATFORM
MANY POSSIBILITIES

WHERE IT WORKS. **WHAT IT POWERS.**

WOX Relay is engineered to perform across the real demands of modern logistics.

From **controlled environments to dynamic urban routes**, it adapts, delivers and scales with your operations.



1 Depot-to-Depot Transfer

Micro transfer and sorting center connections.



Best for: Line-haul, hub transfer, night operations.

2 Campus & Industrial Logistics

Internal transportation in factories, industrial sites and production facilities.



Best for: In-plant logistics, component delivery, shift support.

3 Warehouse Perimeter Operations

Ring transportation between warehouse, loading docks and parking.



Best for: Yard management, dock-to-yard flow, staff shuttle.

4 Airport/Large Facility Logistics

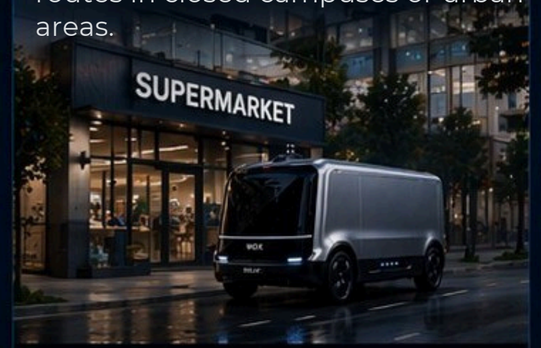
Movement of baggage, samples, equipment and small-volume goods.



Best for: Baggage transfer, GSE delivery, facility operations.

5 Retail & Grocery Replenishment

Store replenishment along fixed routes in closed campuses or urban areas.



Best for: Predictable routes, fresh & fast replenishment.

6 Smart Community Delivery

Deliveries in residential, university, hospital and tech park campuses.



Best for: Last-mile delivery, access control, sustainable mobility.

START WHERE **AUTONOMY** CREATES IMMEDIATE VALUE

A smart deployment strategy turns autonomy into results. Begin in controlled environments, validate performance, then expand with confidence.

WOX Relay delivers **measurable value from day one**-and scales as you grow.



1 START STRONG

PRIVATE ROADS/ INDUSTRIAL PARKS / CAMPUSES / LOGISTICS ZONES

Controlled environments for fast validation, high reliability and **immediate ROI.**



FOCUS Prove. Optimize. Scale.

2 EXPAND WITH CONFIDENCE

SEMI-OPEN OPERATIONAL CORRIDORS

Predefined routes connecting key locations with mixed traffic awareness and enhanced operational flexibility.



FOCUS Extend. Integrate. Increase Complexity.

3 SCALE TO PUBLIC IMPACT

SELECTED PUBLIC-ROAD LAST-MILE APPLICATIONS

Targeted deployments in low-risk areas, unlocking city-scale impact and broader adoption.



FOCUS Deliver. Impact. Lead.

WHY **IT WORKS**

Reduces Regulatory and Public Acceptance Risk

Builds trust step by step.

Delivers Faster Results

Shorter cycles, measurable value, earlier wins.

Improves Performance Before Scaling

Optimize operations, then handle complexity.

Creates a Clear Path to Scalable Growth

From private to public, with confidence.

ENGINEERED FOR
DURABLE DAILY OPERATION

WOX Relay is built on an automotive-grade architecture designed for safety, efficiency and long-life performance.

30 kW Motor Option | **60 kW** Motor Option | **400 V** High-Voltage Platform



01

Electric Platform

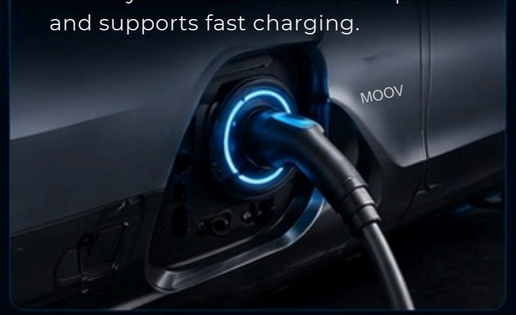
Purpose-built EV platform designed for commercial mobility.



02

High-Voltage Architecture

400V system delivers efficient power and supports fast charging.



03

Thermal Management

Air and liquid cooling work together to ensure stable performance in all conditions.



04

Redundant Braking / Safety Logic

ESC + EHB + EPB with fail-operational logic. Steer-by-Wire for precise control and system redundancy.



05

Sensor Suite / Perception Stack

Multi-sensor fusion for reliable detection, localization and decision making.



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06

Fleet Connectivity

Real-time data, OTA updates and smart fleet management.



07

Remote Monitoring

Live diagnostics, performance insights and proactive support.



08

Cargo Module Interface

Standardized interface simplifies body integration and customization.



TECHNICAL **SPECIFICATIONS**

Designed to Perform.
Built to Last.







ITEM	3 m³ VARIANT	6 m³ VARIANT
Vehicle Dimensions (L x W x H)	3,000 × 1,100 × 1,700 mm	3,500 × 1,300 × 2,000 mm
Cargo Volume	≥ 2.4 m³	≥ 5.4 m³
Payload	≥ 500 kg	≥ 1,000 kg
Range (CLTC)	≥ 100 km	≥ 130 km
Max Speed	≥ 60 km/h	≥ 60 km/h
Gradeability	Full load ≥ 20% Short-term peak ≥ 25%	Full load ≥ 22% Short-term peak ≥ 25%
Turning Radius	≤ 4,000 mm	≤ 4,700 mm
Ground Clearance	≥ 120 mm	≥ 155 mm
Charging Interface	CCS2/GB/T (Fast & Slow Charging Supported)	
Operation Environment	-30°C to 55°C, 10% - 90% RH Adaptable to rain, snow, heat and high-cold conditions	
Connectivity	5G / 4G, Wi-Fi 6, GNSS/RTK, V2X Ready	
Autonomy Level / ODD	**L4 (SAE)** ODD: Private roads, industrial parks, campuses and logistics zones. Planned expansion to semi-open corridors and selected public-road last-mile.	

WOX Relay delivers automotive-grade performance with proven specifications,
ready for reliable daily operations and future scalability.

* Specifications may vary by configuration and are subject to change.

ONE PLATFORM
MULTIPLE BODIES

WOX Relay uses a standardized, drive-by-wire chassis that supports rapid body customization to fit different industries and operational needs.



Faster Deployment
Change the body, not the platform.

Lower TCO
Shared platform, higher utilization.

Scalable Operations
One platform, many use cases.

1 PARCEL BOX

Optimized for sorting, parcel delivery and e-commerce.



Best for:
- Express Delivery
- Micro-Hubs
- E-commerce

2 GROCERY / COLD-CHAIN MODULE

Temperature-controlled transport to keep goods fresh and safe.



Best for:
- Fresh Grocery
- Pharmaceutical
- Cold-chain Logistics

3 INDUSTRIAL MATERIAL CARRIER

Rugged and configurable for parts, tools and bulk materials.



Best for:
- Manufacturing Plant
- Construction Sitess
- Internal Logistics

4 SECURE-LOCKER DELIVERY BODY

Smart lockers for contactless, secure, and accountable delivery.



Best for:
- Residential Communities
- Universities & Campuses
- Office Parks

5 AIRPORT / FACILITY SERVICE BODY

Tailored for baggage, samples, equipment and facility support.



Best for:
- Airport
- Hospitals
- Large Facilities

* Body modules are illustrative. Specifications and configurations can be customized.

SAFETY, REDUNDANCY, **TRACEABILITY**

WOX Relay is designed to operate **safely and predictably**. From **perception to planning,** from **braking to supervision**, every layer works together to ensure **secure and trustworthy operations.**

AUTONOMY FRAMEWORK

A proven closed-loop process ensures **safe and efficient driving.**



Navigation
Localization and environment understanding

Situational Analysis
Object detection, tracking and risk assessment.

Motion Planning
Decision making and optimal trajectory generation.

Trajectory Control
Precise execution with stable and comfortable driving

01

Continuous Perception

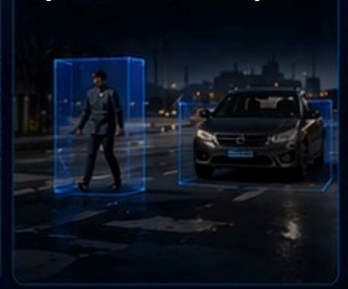
Multi-sensor fusion provides 360° awareness in real time.



02

Obstacle Detection

Accurately detects vehicles, pedestrians, cyclists and static objects.



03

Controlled Braking Logic

Smooth, predictable braking with redundancy for fail-safe performance.



04

Remote Supervision

Live monitoring, intervention and fleet management ensure operational confidence.



05

Route-Defined Operation

Operates within validated routes and zones for consistent and lawful service.



06

Fail-Safe Behavior

Safe stop, minimal risk maneuvers and system degradation strategies.



07

Operational Traceability

Logs vehicle health, events and mission data for audit and continuous improvement.



Safety by design. Trust by execution.

FROM VEHICLE
TO FLEET

WOX Fleet turns data into decisions.
Monitor, manage and optimize your autonomous operations from a single command center.

Live Vehicle Status
Track location, speed, battery, health and mission progress in real time.

Route Assignment
Send, update and optimize routes with a few clicks.

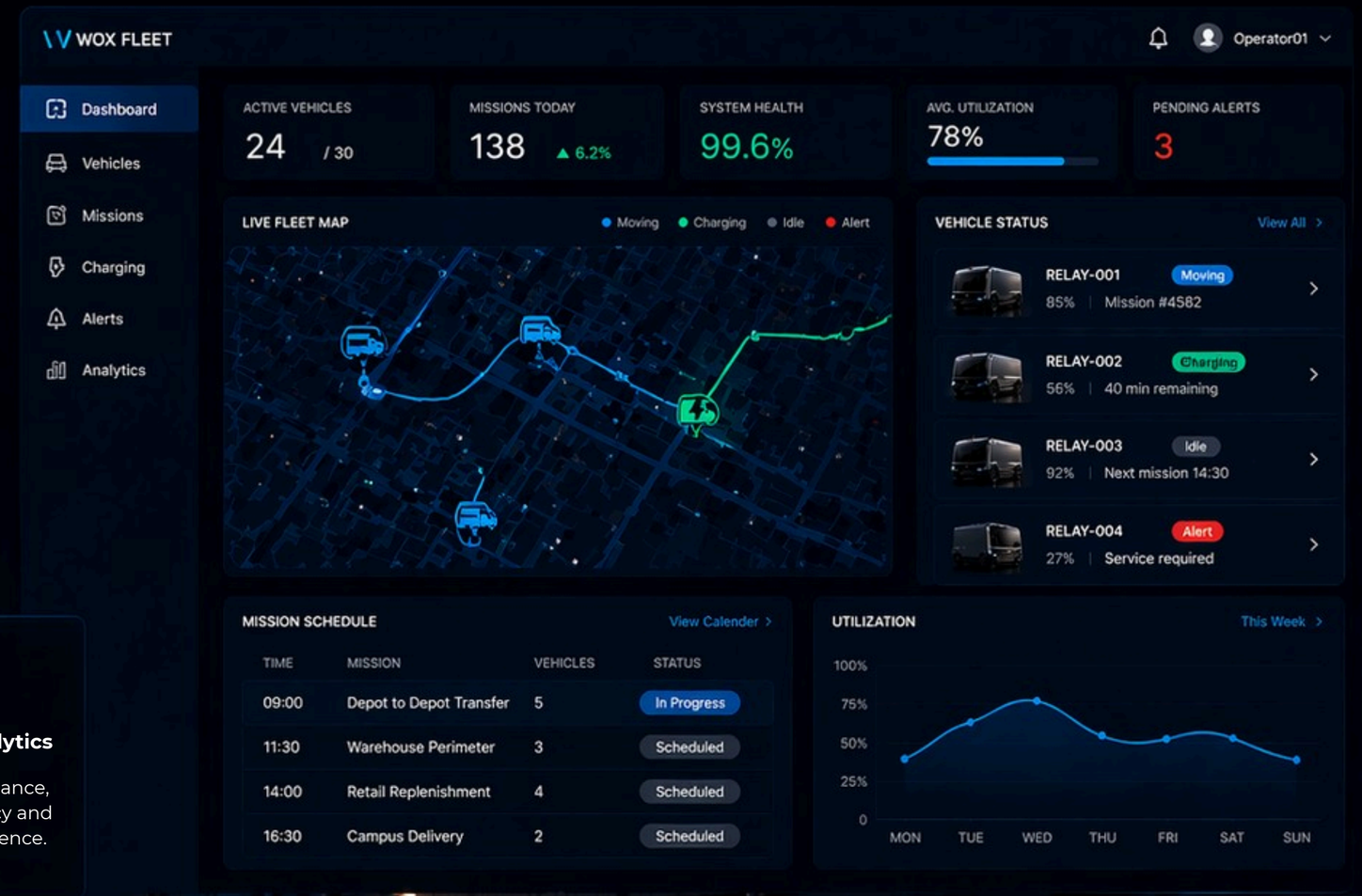
Charging Status
Monitor SoC, charging progress and plan charge windows intelligently.

Mission Scheduling
Plan recurring missions, set priorities and coordinate fleet operations.

Exception Alerts
Get notified instantly about deviations, faults and operational issues.

Remote Diagnostics
Access vehicle systems, run diagnostics and resolve issues without on-site visits.

Utilization Analytics
Measure performance, improve efficiency and scale with confidence.



One Platform. Full Visibility. Smarter Operations.



LOWER EMISSIONS.
HIGHER UTILIZATION.

Sustainability is built in.

WOX Relay combines electric drive, intelligent routing and autonomous operations to deliver more with less.



Electric Drive

Zero tailpipe emissions. Cleaner air for cities.

Operational Efficiency

Consistent driving. optimized stops and faster task cycles.

Optimization-Driven Routing

Smarter routes reduce energy use, distance and traffic.

Lower Local Emissions

Supports urban sustainability goals and ESG commitments.

More Missions with the Same Fleet

Higher utilization turns your fleet into a greater asset.

REAL IMPACT

CONVENTIONAL DELIVERY		WOX RELAY AUTONOMOUS & ELECTRIC
Utilization ~ 60% Typical Diesel / Manual Operations	UP TO 40% BETTER UTILIZATION POTENTIAL*	Utilization ~ 85%+ More Missions. Same Fleet.
Local Emissions Higher More CO_2, NO_x, PM		Local Emissions Lower Zero Tailpipe Emissions

* Improvement potential varies by use case, operations and environment.

Smarter Operations. Greener Future.

WOX Relay makes urban logistics more sustainable, more productive and ready for what's next.

WOX relay

Built to Move
the Future of Logistics.

For campuses, logistics parks, industrial zones
and next-generation delivery networks.



CAMPUSES | LOGISTICS PARKS | INDUSTRIAL ZONES | NEXT-GENERATION DELIVERY NETWORKS