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CYCLE PULSE

Smart LiDAR Traffic Counter | Multi-Modal Detection System



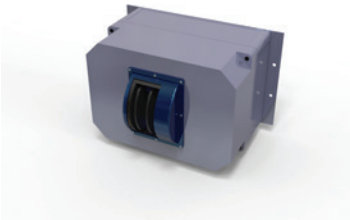
We see you!

Next-generation LiDAR traffic counter that simultaneously detects cyclists, e-scooter riders, and pedestrians with >95% accuracy. Zero-excavation installation, professional EN12966-certified display, and complete cloud analytics platform included.

KEY BENEFITS

- **Multi-Modal Detection: Cyclists, e-scooters, pedestrians-all classified separately**
- **Fast-Track Deployment: Zero excavation, no road closures, 2-4 hour installation**
- **100% System Mobility: Relocate anytime-perfect for temporary or pilot installations**
- **All Bicycle Types: Carbon fiber, aluminum, steel-no metal detection required**
- **Cloud Platform: First year included, then €150/year for maintenance & API**







Cycle Pulse

LIDAR VS. INDUCTIVE LOOPS

Feature	Cycle Pulse	Inductive Loops
Installation	Side-mount, 2-4h	Road excavation, 1-2 days
All bike types	>95%	70-85% (metal only)
E-scooters	✓ Yes	✗ No
Maintenance	Minimal	Frequent repairs
5-year TCO	70% lower	Baseline

IDEAL APPLICATIONS

- Cycling infrastructure
- Temporary installations
- EU grant applications
- Tourist route monitoring
- Urban planning
- Smart city projects

TECHNICAL SPECIFICATIONS

DISPLAY UNIT (CP-1800)

Dimensions: 1800 × 650 × 150 mm
Weight: ~45 kg
Display: LED matrix + 7-segment
Power: 230V AC, ~80W max
Connectivity: Ethernet + 4G
Protection: IP65 (-20 to +50°C)
Certification: EN12966

LIDAR SENSOR (LVS 2001)

Dimensions: 325 × 325 × 173 mm
Weight: ~8 kg
Technology: LiDAR 905nm IR
Power: 12/24V DC, 6W avg
Coverage: 96° width, 30m range
Accuracy: >95% all weather
Safety: Class 1 laser (eye-safe)

LOGISTICS & SHIPPING

Item	Specification
Total System Weight	~53 kg (without battery)
Shipping Package	1900 × 750 × 300 mm, ~65 kg
Hybrid Battery (optional)	+15 kg, 7-day backup

SYSTEM COMPONENTS

- CP-1800 Display Unit with LED matrix and EN12966 certification
- LVS 2001 LiDAR Sensor with 96° scanning coverage
- City Control Center cloud platform (1st year free, then €150/year)
- Mounting brackets and 10m cabling
- Remote diagnostics & firmware updates

CERTIFICATIONS & COMPLIANCE

- ✓ CE Marking
- ✓ EMC 2014/30/EU
- ✓ EN12966
- ✓ LVD 2014/35/EU
- ✓ GDPR Compliant
- ✓ WEEE & RoHS
- ✓ IP65 Rated
- ✓ Laser Class 1

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EU Grant Applications: Provides all required traffic data for Horizon Europe, CEF Transport, ERDF, LIFE

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