



# Pure Solid State Scanning LiDAR

## Ramp Metering

LiDAR is *the* sensor technology for Ramp Metering as it provides 4D actionable insights to transform legacy systems. LiDAR increases safety, decreases congestion, makes city planning more efficient as well as enhancing the quality of life for city dwellers without compromising on privacy, as no demographic data is captured.

**Opsys' industrial LiDAR, ALTOS, has no moving parts, making it more robust as there are no mechanical failures over time. Applications for Ramp Metering are endless.**



### Benefits of ALTOS include

- Removes concerns for citizen privacy: no biometric (demographic) data captured
- Extreme reliability: at an affordable cost for mass production
- Discrete: the small form factor eliminates the need for heavy specialized mounts
- Pure Solid State (camera-like): making it familiar and easy to install
- A fourth dimension provided: intensity and ambient data
- Transforms legacy systems into smart systems: with actionable 4D insights
- Smart design features: POE and built-in intelligence



Easy to deploy  
Camera-like



Compact in size  
Provides flexibility



Cost-saving  
Semiconductor-based



High-resolution  
Centimeter-level accuracy



Industrial-grade  
NEMA TS-2



Infinitely scalable  
Affordable technology



Actionable insights  
Real-time digital twin



No moving parts  
160 000h MTBF



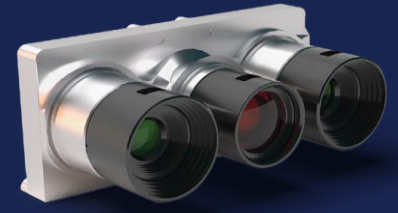
Fast scanning  
20 FPS



Low power consumption  
Cost-saving

## ALTOS: a fully integrated Ramp Metering solution

- Integrated ability to detect, track and classify multiple type of vehicles
- Traffic statistic aggregation with convenient report format, ready to connect to ATMS
- Ability to directly manage traffic signals via NTCIP 1202 or SDLC\* protocols
- NEMA TS-2 certified
- Multiple variants of ramp monitoring
- Highly integrated solution to simplify traffic cabinet design



\* Additional hardware required

	ALTOS 70	ALTOS 150	ALTOS 300
Ramp Length	70m	130m	Over 200m
Ramp Width	Up to 8 lanes	Up to 4 lanes	Up to 2 lanes
Horizontal Coverage	78°	42°	20°
Ramp Radius	40m	75m	150m
Simultaneous Coverage of Ramp and Main Road	Yes	Yes	No
Supported Vehicles Classes	5	5	5

## Other supported ITS applications

- Traffic Infrastructure:** Speed Enforcement, Tolling, Traffic Measurement and Occupancy
- Traffic safety:** Wrong Way Detection, Overhigh Detection, Pedestrian Safety Warning
- Rail safety:** Platform Safety, Vehicle Clearance



The world's most advanced solid state scanning LiDAR

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