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## Smart Railway Solution

Based on High-performance Image-grade LiDAR



# Smart Railway Solution

Based on High-performance Image-grade LiDAR

- Traditional rail transit safety measures mainly rely on physical barriers and security personnel. In recent years, emerging monitoring methods such as electronic fences and intelligent video surveillance still have limitations such as short monitoring distance and high false alarm/missed detection rates.
- In future, "automated driving" has become a new trend in rail transit, placing higher demands on train active detection systems.
- Seeyond's smart railway solution is based on high-performance image-grade LiDAR. It provides long-range, high-precision, all-weather, stable, and reliable monitoring. It supports deep learning algorithms for fast and accurate target perception, ensuring higher detection rates, lower false alarm rates, thus strengthening the lifeline of rail transit operations.

## Competitive Advantages

500m Ultra-long-range Detection	250m@10%(POD>90%) Continuous and Stable Detection	120°H×25°V Ultra-wide Field of View	0.09°H×0.08°V Ultra-high Resolution	1550nm Superb Anti-interference Capability
7×24H Accurate Monitoring	ASIL B Automotive Safety Levels	Automotive Grade High Stability and Reliability	Mass Production Fully Industrialized Production Line	

## Application Scenarios

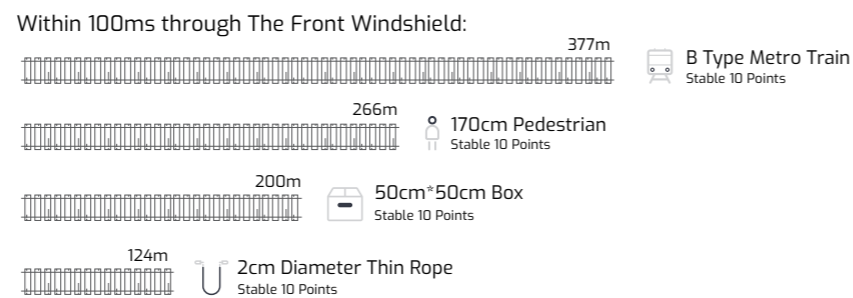
### Proactive Detection



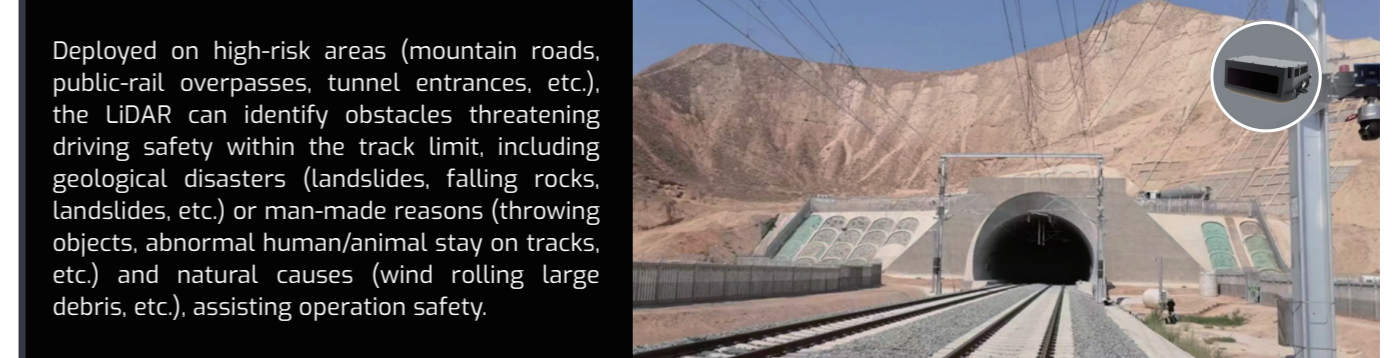
#### Functions



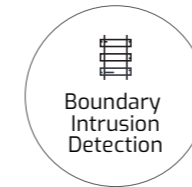
#### Technical Highlights



## Trackside Boundary Intrusion Monitoring

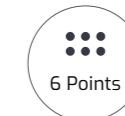


#### Functions

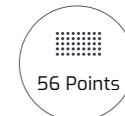


#### Technical Highlights

20cm x 20cm Box at 110m (100ms)



20cm x 20cm Box at 110m (1s)



## Gap Detection between Metro Train and Platform Screen Door



#### Functions



#### Technical Highlights

Gap Detection between Metro Train and Platform Screen Door

