

THE NIART ADVANTAGE

The Sixth Sense of Future Railways

Onboard Radar-Powered Railway Perception System

NIART transforms railway operations by delivering a new dimension of awareness where conventional vision fails. We provide a radar-powered, all-weather obstacle detection system, ensuring absolute clarity for every mile. From Driver Assistance to ATO Subsystem, NIART offers a scalable solution that enhances driver safety today, while enabling a clear, future-ready path to full autonomy.



KEY BENEFITS

Optimizing Rail Operation



Safety Boost



Efficiency Enhancement



Driver Empowerment



Future Ready

INTELLIGENT PERCEPTION

Beyond Vision

Our smart co-pilot detects what others miss: reliably identifying obstacles up to 1500m ahead, operating consistently through day and night, fog, rain, or snow. Radar powered sensing reduces blind spots and safeguards train operations, minimizing delays, preventing accidents, and optimizing schedule and capacity.



OUR CORE APPLICATIONS

Tailored for *Your* Railway

Mainline Driver Assist

- Long-range coverage
- High-resolution Radar fused with multi-spectral electro-optics
- Actionable insights powered by AI
- Infrastructure integrity monitoring
- All-weather operation

Shunting Automation Assist+

- Short and Mid-range coverage
- Coupling and Precise approach
- distance monitoring
- Remote Operation and Interoperability with ATO
- Switch state and signals aspect detection
- All-weather operation



Rooted in the aerospace industry and adapted to the Smart Mobility sector, NIART Systems' expertise focuses on radar engineering and multi-sensor solutions, delivering an unmatched long-range detection and recognition capabilities for safer, smarter, and greener railways.

READY FOR A SMARTER, SAFER RAILWAY?

Discover how NIART can enhance the safety of your fleet TODAY and help you build the automation foundation for TOMORROW. Visit www.niart-systems.com