



Looking ahead. Taking you beyond.

RAIL VISION'S SHUNTING YARD SYSTEM

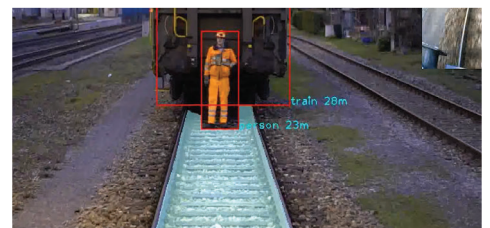


Streamlining shunting yard operations

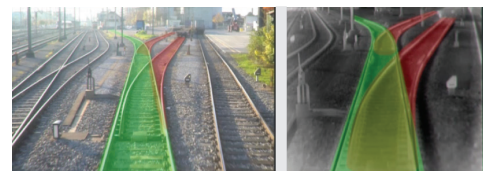
Rail Vision's unique Shunting Yard System enables railway operators to streamline and enhance the safety of their shunting operations. Combining advanced vision sensors with artificial intelligence and deep learning technologies, the system automatically detects and classifies objects within a range up to 200 meters, in all weather and light conditions, allowing significant increases of productivity and service speed on the shunting yard. In addition, it enables the monitoring of operational dead zones to facilitate secure wagon coupling and sends real-time visual and acoustic alerts to remote operators and drivers, ensuring a safe and secure environment. With its one-of-a-kind pathfinder technology, the Shunting Yard System is capable of detecting switch states to support the execution of coupling from a remote position.



System mounted on locomotive



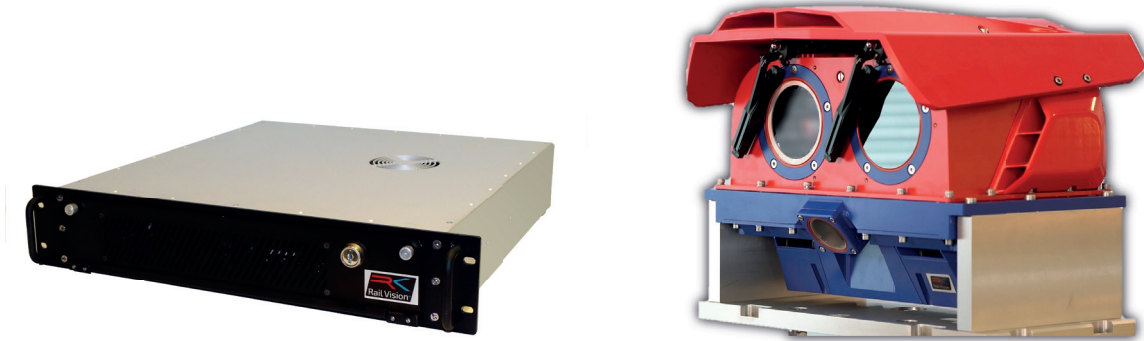
Acoustic and visual alert



Pathfinder

- Driver Assistant Early Warning System
- Integrates with existing sub systems
- Provides automatic obstacle detection & classification
- Operates in harsh weather & light conditions
- Increased safety
- Detects operative range up to 200 meters
- Customizable scalability
- Option to be remote controlled

Sensor & Computing unit



Technical Specifications

Interface type	Feature	Figures & Details
Mechanical	Size – sensor unit (SU)	324 x 235 x 294 [mm]
	Size – computing unit (CU)	86 x 426 x 504 [mm]
	Installation	IAW drawing (Adaptation per platform)
Temperature	Operating temperature	-20° to +55° C
Electrical	Input voltage	12 VDC (Adaptation per platform)
	Power	<800W
	Monitor	Display port (Option for HDMI)
	Audio	Embedded in video
Communication	Network	Ethernet
		CAN
		Wi-Fi, 3G, LTE (optional)
Detection range	Pathfinder	Up to 100 m
	Switch state	Up to 50 m
	Human	Up to 150 m
	Vehicle	Up to 300 m
	End of rail	Up to 80 m
Standards	Environmental operating conditions	Designed to meet EN 50155, EN 61373, EN 60529
	Safety Standard	Designed to meet EN 50126, EN 50657
	Fire Protection	Designed to meet EN 45545
	Electromagnetic compatibility	Compliant to EN 50121
	10 ~ 95% RH, Non-condensing	

