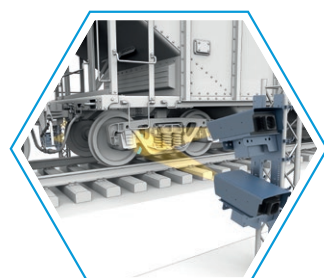
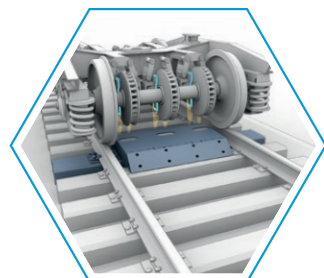
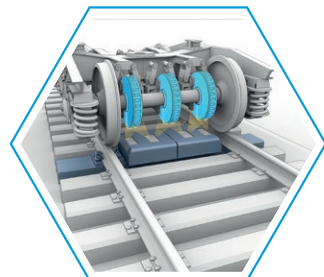
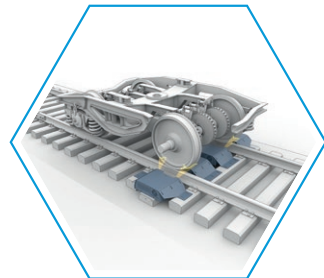
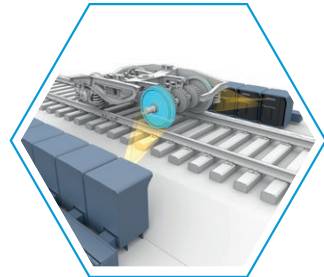




Specifications

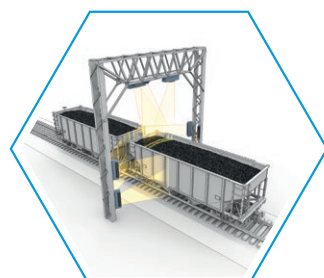
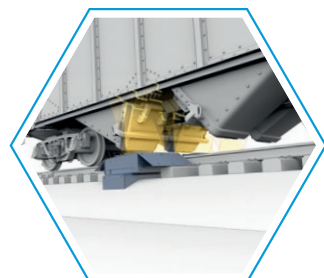
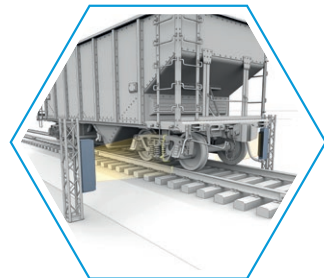
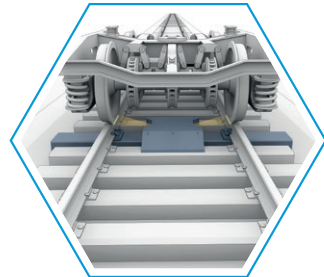


WHEEL	TreadView	WheelView
Function	Wheel surface inspection	Wheel profile measurement
Application	<ul style="list-style-type: none"> Freight & heavy haul High speed Passenger Metro Tram 	<ul style="list-style-type: none"> Locomotive Freight & heavy haul High speed Passenger Metro Tram
Installation Location	<ul style="list-style-type: none"> Mainline Depot Yard Indoors 	<ul style="list-style-type: none"> Mainline Depot Yard Indoors
Operating Speed	• Inspection and measurement at mainline operational speeds.	• Measurement at mainline operational speeds.
Inspections & Measurements	<ul style="list-style-type: none"> Shelled and spalled tread. Major scrapes, dents, and gouges. Broken/missing wheel sections. Shattered rim. Broken or damaged flange. Wheel flats and slid flats. Wheel OOR (out-of-round). Built-up tread. Tread groove. Vertical split rim (flange or field side). Significant spread rim. Wheel tread hollow around the wheel. 	<ul style="list-style-type: none"> Full wheel profile. Flange height. Flange width (thickness). Flange slope. Tread hollow. Rim thickness. Back-to-back (B2B). Tracking position (wheel lateral position). Wheel diameter. Wheel width. Tread rollover. Flange rollover (arris). Equivalent conicity (additional module). Depth to witness groove position (if any).
Operating Temperature	• Operates in extreme environments.	• Operates in extreme environments.
Power Requirements	<ul style="list-style-type: none"> 110V AC or 220V AC 11.5kW 	<ul style="list-style-type: none"> 110V AC or 220V AC Mainline/Yard/Depot: 10kW Indoors: 5kW
Periodic Maintenance	<ul style="list-style-type: none"> Annual calibration. Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual calibration. Annual inspection & service. Quarterly inspections.
Installation Position	• Off track/concrete or steel base.	<ul style="list-style-type: none"> F: In track/steel sleeper (tie). I: In track/steel base.
Remote Diagnosis	• Yes	• Yes
Automated Health Reporting	• Yes	• Yes
AEI/RFID Integration	• Yes	• Yes
Air Purge Unit	• No	• Yes

BRAKE	BrakeView-Disc	BrakeView-Pad	BrakeView-Shoe
Function	Brake disc inspection	Brake pad inspection	Brake shoe (block) inspection
Application	<ul style="list-style-type: none"> High speed Passenger Metro Tram 	<ul style="list-style-type: none"> High speed Passenger Metro Tram 	<ul style="list-style-type: none"> Freight & heavy haul High speed Passenger Metro Tram
Installation Location	<ul style="list-style-type: none"> Mainline Depot Yard 	<ul style="list-style-type: none"> Mainline Depot Yard 	<ul style="list-style-type: none"> Mainline Depot Yard
Operating Speed	• Inspection and measurement at mainline operational speeds.	• Inspection and measurement at mainline operational speeds.	• Inspection and measurement at mainline operational speeds.
Inspections & Measurements	<ul style="list-style-type: none"> Disc thickness. Disc flatness. Alarms on disc thickness levels. Missing disc detection. Visual images of the disc and surrounding area. 	<ul style="list-style-type: none"> Pad thickness. Alarm on pad thickness levels. Missing pad detection. Broken pad detection. Visual image of the pad and surrounding area. 	<ul style="list-style-type: none"> Shoe thickness in top and bottom positions. Shoe wear profile. Shoe position with respect to the wheel surface. Missing key detection. Missing shoe detection. Shoe securement key length.
Operating Temperature	• Operates in extreme environments.	• Operates in extreme environments.	• Operates in extreme environments.
Power Requirements	<ul style="list-style-type: none"> 110V AC or 220V AC 10kW 	<ul style="list-style-type: none"> 110V AC or 220V AC 10kW 	<ul style="list-style-type: none"> 110V AC or 220V AC 4.5kW
Periodic Maintenance	<ul style="list-style-type: none"> Annual calibration. Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual calibration. Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual calibration. Annual inspection & service. Quarterly inspections.
Installation Position	• In track/steel sleeper (tie).	• In track/steel sleeper (tie).	• Off track/tower or pole on concrete or steel base.
Remote Diagnosis	• Yes	• Yes	• Yes
Automated Health Reporting	• Yes	• Yes	• Yes
AEI/RFID Integration	• Yes	• Yes	• Yes
Air Purge Unit	• Yes	• Yes	• No



Specifications



TRUCK (BOGIE) & AXLE	AOAView	TruckView
Function	Angle of attack (AOA) inspection	Truck (bogie) inspection
Application	<ul style="list-style-type: none"> Locomotive Freight & heavy haul High speed Passenger Metro Tram 	<ul style="list-style-type: none"> Locomotive Freight & heavy haul High speed Passenger
Installation Location	<ul style="list-style-type: none"> Mainline Depot Yard 	<ul style="list-style-type: none"> Mainline Depot Yard
Operating Speed	<ul style="list-style-type: none"> Inspection and measurement at mainline operational speeds. 	<ul style="list-style-type: none"> Inspection and measurement at mainline operational speeds.
Inspections & Measurements	<ul style="list-style-type: none"> Axle angle of attack (AOA). Axle tracking position. Back to back (B2B). Truck (bogie) tracking error. Truck (bogie) lateral shift. Truck (bogie) rotation. Truck (bogie) interaxle misalignment. Detection of truck (bogie) hunting if multiple units are installed. 	<ul style="list-style-type: none"> Wedge height. Individual and average wedge rise. Alarm generation for excessive high wedges. Bolster height. Spring nest height. Spring spacing. Spring inspection to detect broken/missing/solid springs. Missing bearing cap and cap bolts detection. Bearing adapter inspection (missing or significant misalignment). Missing wear plate detection. Missing axle keep and axle keep nut detection. Truck (bogie) type recognition. Missing R-clip and clevis pin detection. Hopper door inspection (broken hinge, open doors). Side frame inspection (optional). Sliding wheel detection (optional).
Operating Temperature	<ul style="list-style-type: none"> Operates in extreme environments. 	<ul style="list-style-type: none"> Operates in extreme environments.
Power Requirements	<ul style="list-style-type: none"> 110V AC or 220V AC 5.5kW 	<ul style="list-style-type: none"> 110V AC or 220V AC 3.5kW
Periodic Maintenance	<ul style="list-style-type: none"> Annual calibration. Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual calibration. Annual inspection & service. Quarterly inspections.
Installation Position	<ul style="list-style-type: none"> In Track/ Steel Sleeper (Tie) 	<ul style="list-style-type: none"> Off Track/Tower or Pole on Concrete or Steel Base
Remote Diagnosis	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes
Automated Health Reporting	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes
AEI/RFID Integration	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes
Air Purge Unit	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> No

CAR (WAGON)	AHView	CouplerView-CrossKey	CouplerView-Pin	CSCView	TrainView	TrainView-LS
Function	Brake air hose inspection	E-Type coupler securement inspection	F-Type coupler securement inspection	Car (wagon) structural components (undercarriage) imaging & inspection	Full scale train imaging & inspection	Full scale train laser scanning & inspection
Application	<ul style="list-style-type: none"> Freight & heavy haul Passenger 	<ul style="list-style-type: none"> Freight & heavy haul 	<ul style="list-style-type: none"> Freight & heavy haul Passenger 	<ul style="list-style-type: none"> Locomotive Freight & heavy haul High speed Passenger Metro Tram 	<ul style="list-style-type: none"> Freight & heavy haul High speed Passenger Metro Tram 	<ul style="list-style-type: none"> Freight & heavy haul High speed Passenger Metro Tram
Installation Location	<ul style="list-style-type: none"> Mainline Depot Yard 	<ul style="list-style-type: none"> Mainline Depot Yard 	<ul style="list-style-type: none"> Mainline Depot Yard 	<ul style="list-style-type: none"> Mainline Depot Yard 	<ul style="list-style-type: none"> Mainline Depot Yard 	<ul style="list-style-type: none"> Mainline Depot Yard
Operating Speed	<ul style="list-style-type: none"> Inspection and measurement at mainline operational speeds. 	<ul style="list-style-type: none"> Inspection at mainline operational speeds. 	<ul style="list-style-type: none"> Inspection at mainline operational speeds. 	<ul style="list-style-type: none"> Inspection and measurement at mainline operational speeds. 	<ul style="list-style-type: none"> Inspection and measurement at mainline operational speeds. 	<ul style="list-style-type: none"> Inspection and measurement at mainline operational speeds.
Inspections & Measurements	<ul style="list-style-type: none"> Air hose orientation. Air hose angle. Air hose height from top of rail. Glad-hand angle. Alarm on peaked and horizontal coupling. Air hose support inspection. Coupler shank movement. Coupler height. 	<ul style="list-style-type: none"> Classification of E-type and F-type couplers. Missing cross key (draft key) detection. Missing retainer-pin (T-Pin) detection. Missing cross key (draft key) retainer washer detection. Missing cotter key detection. 	<ul style="list-style-type: none"> Classification of E-type and F-type couplers. Missing coupler pin plate detection. Leaning coupler pin plate detection. Missing fasteners detection. Rotated coupler pin plate detection. Missing knuckle pin detection. Combination of any of the above. 	<ul style="list-style-type: none"> Floor support inspection. Center sill crack detection. Brake beam inspection. Missing bolt(s) detection for coupler and draft gear carrier plates. Missing knuckle pin detection. Missing uncoupling lever detection. Draw gear bottle and follower block separation. Axle scoring detection. Bent headstock detection. 	<ul style="list-style-type: none"> Car (wagon) tag identification. Missing/damaged reflective decals detection. Missing label holder detection. Missing brake wheel detection. Missing/broken shedding shields detection. Bent top chord detection. 	<ul style="list-style-type: none"> Car (wagon) structural gauge and profile. High-wide detection. Car (wagon) load profile. Load carry back. Car (wagon) orientation detection (leaning cars). Side walls inspection.
Operating Temperature	<ul style="list-style-type: none"> Operates in extreme environments. 	<ul style="list-style-type: none"> Operates in extreme environments. 	<ul style="list-style-type: none"> Operates in extreme environments. 	<ul style="list-style-type: none"> Operates in extreme environments. 	<ul style="list-style-type: none"> Operates in extreme environments. 	<ul style="list-style-type: none"> Operates in extreme environments.
Power Requirements	<ul style="list-style-type: none"> 110V AC or 220V AC 3.5kW 	<ul style="list-style-type: none"> 110V AC or 220V AC 9kW 	<ul style="list-style-type: none"> 110V AC or 220V AC 6.5kW 	<ul style="list-style-type: none"> 110V AC or 220V AC 9kW 	<ul style="list-style-type: none"> 110V AC or 220V AC 6.5kW 	<ul style="list-style-type: none"> 110V AC or 220V AC 6.5kW
Periodic Maintenance	<ul style="list-style-type: none"> Annual calibration. Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual inspection & service. Quarterly inspections. 	<ul style="list-style-type: none"> Annual inspection & service. Quarterly inspections.
Installation Position	<ul style="list-style-type: none"> Off track/tower or pole on concrete or steel base. 	<ul style="list-style-type: none"> In track/steel sleeper (tie). 	<ul style="list-style-type: none"> In track/steel sleeper (tie). 	<ul style="list-style-type: none"> In track/steel sleeper (tie). 	<ul style="list-style-type: none"> Off track/tower or pole on concrete or steel base. 	<ul style="list-style-type: none"> Off track/tower or pole on concrete or steel base.
Remote Diagnosis	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes
Automated Health Reporting	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes
AEI/RFID Integration	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes
Air Purge Unit	<ul style="list-style-type: none"> No 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> Yes 	<ul style="list-style-type: none"> No 	<ul style="list-style-type: none"> No