

SRS SafeRailSystem	
TECHNICAL SPECIFICATIONS	
Sensor Frequency	400 MHz
Radar Acquisition Unit	DAD SRS PLUS, with interleaved multiplexing 1800 scans/sec
Number of Collected Profiles	Up to 4
Antenna Frequency	Typical configuration: 400 MHz Alternate frequencies available upon request
Positioning	Doppler Radar GPS (optional)
Collection Speed	> 190 km/h (4 profiles simultaneously)
Maximum Scan Length	Unlimited collected profile length, no need to stop the train
Power Supply	10 - 15 Volts
Video Camera	Synchronized radar and video data
Environmental	IP65
SOFTWARE SPECIFICATIONS	
Radar Processing Software	<p>SRS DPA including:</p> <ul style="list-style-type: none"> SRS DP (Data Processor) SRS DA (Data Analyzer and Reporting) Elimination of disturbances due to the sleepers Automatic data processing according to a predefined macro Management of GPS data and video frames Automatic detection of layer interfaces Automatic calibration of radar propagation velocity with core data Insertion of assets along the track (e.g. switches, crossings, etc.) Assists the operator in evaluating track characteristics: <ul style="list-style-type: none"> Ballast fouling Ballast bed moisture Moisture distribution within the ballast Evenness of track bed basis
Output Data	<p>Immediate visualization of ballast characteristics along the track:</p> <ul style="list-style-type: none"> Stratigraphy Ballast fouling levels Ballast moisture levels Undulation levels