

Tunnel Scanning System (TSS)



What is TSS?

TSS is an array of line-cameras combined with infrared thermography (IRT) and a 360 degree spherical video system. It is specifically designed to record surface data from tunnel linings for structural analysis. The high-resolution imaging system can be mounted on a vehicle or push-cart, allowing it to adapt to various tunnel contours and transportation types: rail, subway, highway, or cable tunnels.

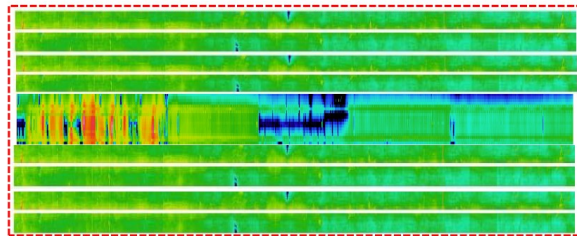
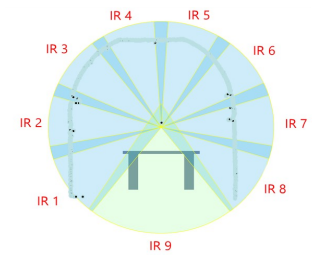
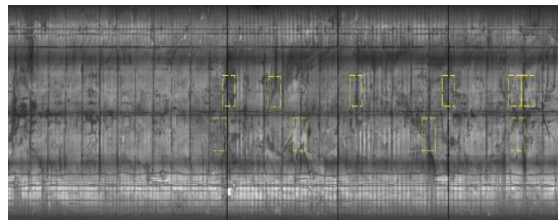
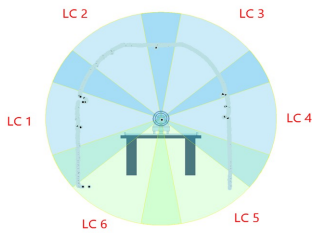




Benefits of using TSS

TSS can map the entire tunnel lining including the track bed in one pass at operating speeds of up to 30 mph, enabling the users to quickly identify problem areas and focus their resources.

With the TSS, the data can be monitored in real-time on-site to determine the quality of data being obtained. Once the raw image data is captured, the images are automatically stitched using our proprietary software suites (Kuraves and JeSuite) for analysis.



Technical Specifications



Water Resistance	3 ft
Max Speed	10 mph
Maximum Height Measured	34.4 ft
Degree of Vision Supported	360 degrees
Deficiencies detected	Cracking, Efflorescence, Water Infiltration
Supported Tunnel Cross Section	Horseshoe, Circular, Box Shape

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