The Trimble® PantoView™ is an automatic inspection system for pantograph carbon strips and head that can be deployed in depots as well as the mainline. The system can handle pantographs with up to four strips and there is a provision to inspect both raised and lowered pantographs.

Pantograph contact strips are made from carbon and are very susceptible to damage. The system uses both imaging and 3D data from the pantograph head to inspect its condition. This provides a comprehensive data set to reliably assess the strip condition.

PantoView is also designed to measure the OLE (Overhead Line Equipment) uplift. From the measurement of uplift the condition of the pantograph can be ascertained. This means that the correct contact force is applied and it is aerodynamically balanced. Uplift trending also provides a measure of frictional hysteresis in the pantograph.

PantoView is unique in providing the complete 3D shape of the head as it is traveling through the inspection site. It is also capable of measuring the pantograph at speed of up to 60 mph (100 km/h).
PantoView
Pantograph Measurement & Inspection System

Inspections & Measurements
- Carbon wear profile along the carbon length
- Carbon surface roughness
- Measure gap between the strip and the end horn
- Poor contact wire condition
- Broken carbons
- Missing carbons
- Carbon grooves, cracks (lengthwise and widthwise)
- Misaligned pantograph head
- Horn condition
- OLE uplift

Features
- Speeds of 0 to 60 mph (100 km/h)
- Operating temperature: −40°C to 55°C
- Capable of operating in extreme environments
- Installed on trackside tower/bridge with no track interference
- Automatic alarm generation

Software Features
- Remote monitoring/control
- Digital image acquisition/processing
- Web-based database/visualization
- Automated reporting
- AEI (RFID) integration

Specifications subject to change without notice.

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