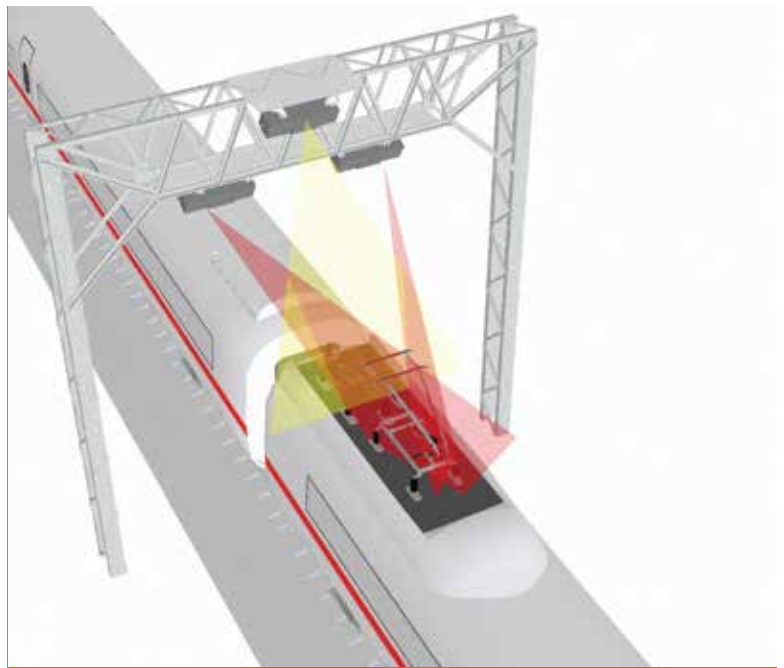




PantoView is the system Beena Vision has developed for automatic inspection of pantograph carbon strips that can be deployed in depots as well as the mainline. The system can handle pantographs with up to four strips. There is a provision to inspect both raised and lowered pantographs as well.

Pantograph contact strips being made from carbon are very susceptible to damage. System is using 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 provide the OLE uplift at a fixed area of the pantograph travel. From the measurement of the 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 will also provide a measure of frictional hysteresis in the pantograph.

### ➔ Measurements

- Carbon Wear
- Wear Profile Along the Carbon Length
- Carbon Surface Roughness
- Measure Gap Between the Strip and the End Horn
- Chips in the Carbons Caused by Poor Contact Wire
- Splices
- Broken Carbons
- Missing Carbons
- Carbon Grooves, Cracks (*lengthwise and widthwise*)
- Misaligned Pantograph Head
- Horn Condition
- OLE Uplift

### ➔ Features

- Complete Pantograph Carbon Strip Inspection
- Speeds up to 60mph (*100 km/h*)
- Capable of Operating in Extreme Environments
- Operating Temperature: -40°C to 55°C
- Installed on a Signal Bridge
- Easy Installation
- Remote Monitoring/Control Capability

### ➔ Software Features

- Remote Monitoring/Control Software
- System Management Software
- Digital Image Acquisition/Processing
- Calibration Software
- Web-based Database/Data Search Software
- Database Interface Software
- Automated Reporting Software
- AEI (AVI) Integration

Overall PantoView is unique in providing the complete 3D shape of the head as it is traveling through the inspection site which is unprecedented in the existing systems. System is also capable of measuring the pantograph at speeds of up to 100km/h.

