



Track Geometry 

Physical Specification

Weight	- 23.5 kg	Tablet	- Panasonic ToughPad FZ G1
Dimensions	- 1700mm x 1012mm x 716mm	Display	- 10.1" Daylight Readable
Battery Life	- 12hrs Approx	Operating System	- Windows 10
Battery Type	- Li-on Rechargeable	Battery Life	- Typically 6hrs
File Types	- PDF & .CSV	Rugged Features	- IP65, 6ft Drop Resistant
GPS	- Expected Accuracy: 1.5m	Temperature	- -20°C to +50°C
Communication	- Wireless	Data	- USB or Wireless Transfer

Measurement Specification

Distance	- Range: 0-200Km Accuracy: +/- 1% Resolution: 10mm	Twist	- Cord Length: User Selectable Accuracy: +/- 0.5mm Resolution: 0.1mm
Gauge	- Range: -25mm to +50mm Accuracy: +/- 0.5mm Resolution: 0.1mm	Cyclic Top	- Distance Range: 2m-200m Wavelengths: 4.5m, 6m, 9m, 13m and 18m Cycle Depth Accuracy: +/- 2mm Resolution: 0.1mm
Cant	- Range: +/- 250mm Accuracy: +/- 0.5mm Resolution: 0.1mm		

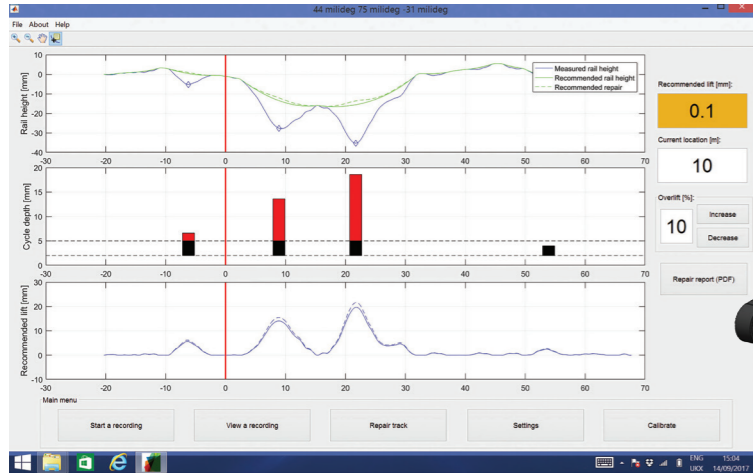
The Abtus Max

Cyclic Top Measurement Device - Network Rail Approved: PA05/06847

The Abtus Max

With a single track recording the Abtus Max enables Track Engineers to quickly identify, measure and repair Cyclic Top faults and trigger points; ensuring line speed is quickly re-established without the need for a TRV recording.

The Abtus Max isn't just a tool for measuring Cyclic Top, the trolley has two measurement modes which are switchable via the user interface. Track Geometry mode disables the Cyclic Top function and allows the user to record just gauge, cant, distance and twist.



The user interface allows track recordings to be viewed on site whilst also providing live maintenance guidance in the form of lift recommendations and high/low point identification.

A precision GPS receiver ensures future recordings can be conducted at the same location enabling pre/post maintenance analysis and preventative maintenance of known problem sites.



System Capabilities

- Cyclic Top Identification - 4.5m, 6m, 9m, 13m & 18m Wavelengths
- Cyclic top Measurement - Left and Right Rails Measured Simultaneously
- Pre Maintenance Guidance - Live High/Low Point Identification and Lift Guidance
- Post Maintenance Inspection - Maintenance Effectiveness Analysis
- Preventative Inspection - Accurate Re-inspection Positioning via Precision GPS
- Trigger Point Identification - Locate and Measure Track Defects
- Track Geometry Recording - Gauge, Cant, Distance and Twist Measurement
- Track Geometry Reporting - Live Data Viewing/Analysis + Exportable Data

The user interface allows pre/post maintenance comparison allowing Track Engineers to clearly see the effectiveness of maintenance and the removal of Cyclic Top faults.

