

GeoVizio-TR-Basic

Track Measurement & Analysis



GeoVizio-TR-Basic is a measuring device which records track geometry while being pushed by an operator at walking speed.

Track geometry data is collected at normal walking speed and is displayed numerically/graphically, in real-time, on a Panasonic ToughPad Tablet. Recorded Distance, Super Elevation, Gauge and Twist data can be transferred easily to a PC via USB key in the widely used .CSV file format. The Abtus software allows the user to set a wide range of measurement parameters and tolerance profiles, helping to quickly and accurately flag 'out of specification' recordings.

The equipment requires only a single operator and can be used without track possession (where local standards allow). The trolley can be assembled/disassembled in 5 seconds for convenient carrying to and from site and is supplied with two padded carry bags for ease of transportation in small vehicles.

→ SPECIFICATION

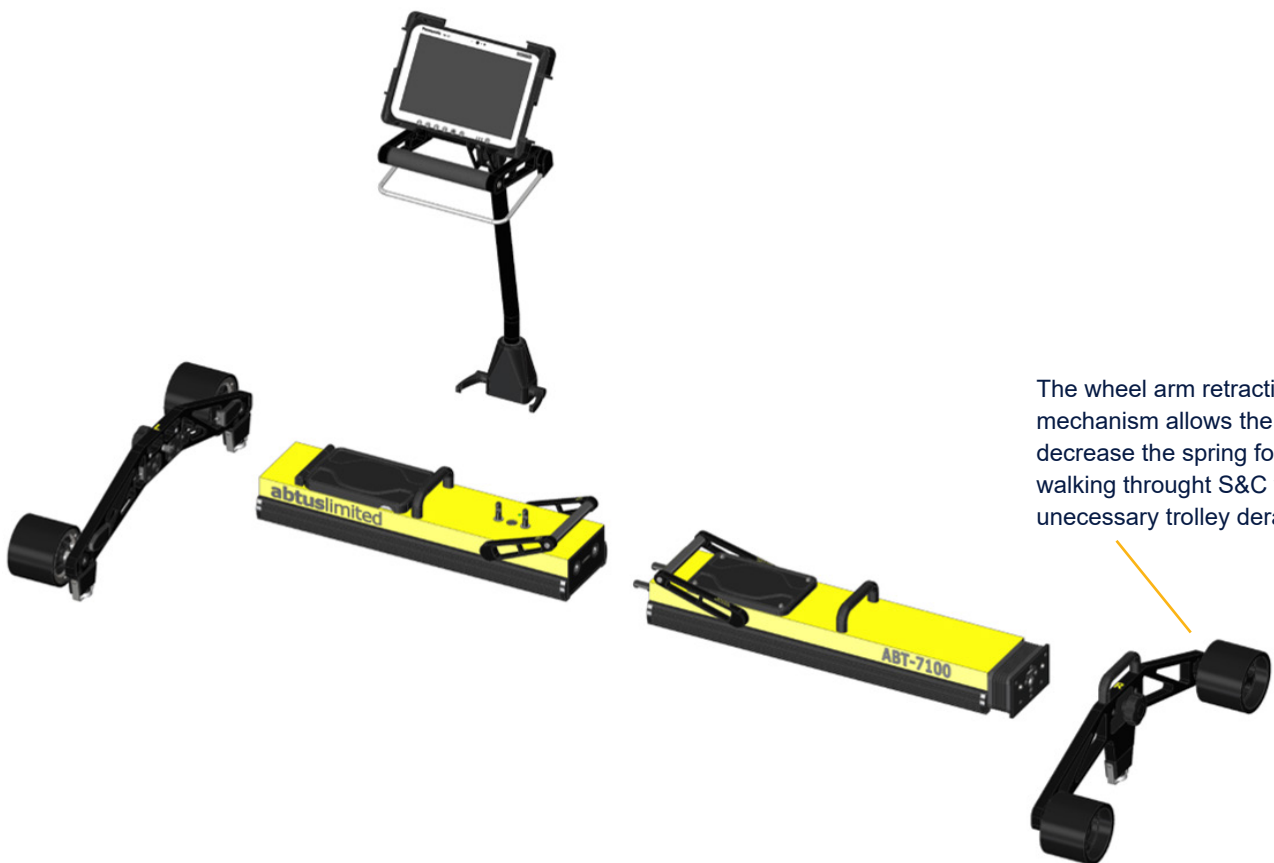
Trolley	
Weight	25kg
Dimension	1700 x 1000 x 720mm
Battery type	Li-on rechargeable
Battery life	12 hr
Files type	PDF & CSV
GPS	Accuracy : +/- 4m
Communication	Wireless
Tablet & software	
Tablet	Panasonic ToughPad FZ G1
Display	10,1" Daylight readable
System	Windows 10
Battery life	6 heures
Rugged Features	IP 65, 6ft Drop Resistant
Temperature	-10° à 50°C
Data	USB or Wireless Transfer

→ MEASUREMENT

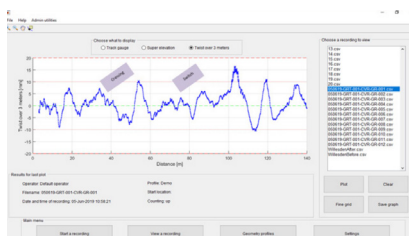
Distance	
Range	: 0-200km
Accuracy	: +/- 1%
Resolution	: 10mm
Gauge	
Range	: -25 to + 50mm
Accuracy	: +/- 1mm
Resolution	: 0,1mm
Cant	
Range	: +/-250mm
Accuracy	: +/- 1mm
Resolution	: 0,1mm
Twist	
Cord length	: user selectable
Accuracy	: +/- 1mm
Resolution	: 0,1mm



- **Track Geometry Recording** - Gauge, SE, Twist and Distance Measurement
- **Track Geometry Reporting** - Live data viewing/analysis + exportable data
- Data is displayed numerically and graphically in real time
- User defined measurement parameters
- User swappable batteries
- Available for track gauges of 1067, 1435 and 1600mm and also for embedded rails.



The wheel arm retraction mechanism allows the user to decrease the spring force whilst walking through S&C which avoids unnecessary trolley derailments.



The user interface allows all measurements to be viewed in real time numerically (simply as the graph) and the user can add predetermined events by quickly tapping the appropriate event buttons on the screen.

1600mm geometry measurement file									
1. Operator: Default operator									
2. Profile: 10100-1175-106225-001									
3. Profile: Maxium limit track									
4. Gauge low limit: 1400									
5. Gauge high limit: 1400									
6. Twist low warning limit: 12									
7. Twist low fault limit: 15									
8. Twist high limit: 15									
9. Counting: off									
10. Date and time of recording: 05-Nov-2016 11:15:10									
11. GPS of start position									
12. Length of measured track [m]: 140									
13. End of header									
Distance [m]	Gauge [mm]	SE [mm]	Twist 3m [mm]	Gauge fault [mm]	Twist 3m warning [mm]	Twist 3m fault [mm]	Event		
100.0	1402.9	24	14.5			2.5			
101.0	1403.0	26.5	15			3			
102.0	1403.5	26.5	15.5			3.5			0.5
103.0	1403.8	26.8	15.5			3.5			0.5
104.0	1403.8	26.8	15.1			3.1			0.1
105.0	1403.7	26.9	14.9			2.9			
106.0	1404	26.9	14.5			2.5			
107.0	1404	27.7	14.4			2.4			
108.0	1404.2	28.4	14.5			2.5			
109.0	1404.6	28.8	15			3			
110.0	1404.8	28.8	12.7			1.2			
111.0	1405.1	28.7	12			1			
112.0	1405.2	28.8	11.8			0.8			

Exportable reports can be found in the 'Recordings' folder providing the user with results for review either on the tablet PC or in the office.