RouteScan Technical Specification

Weight	-	12kg
Battery Life	-	8hrs +
	-	Battery swappable on site
Track Gauges	-	1067mm, 1220mm, 1435mm 1600mm
	-	Others available on request
Gauge	-	Range: -25mm/+50mm from nominal (1435mm, 1600mm only)
	-	Range: -15mm/+25mm from nominal (1067mm, 1220mm only)
	-	Accuracy: +/-1mm
	-	Resolution: 0.1mm
Cant	-	Range: +/- 200mm
	-	Accuracy: +/- 1mm
	-	Resolution: 0.1mm
Point Accuracy	-	Typically: +/- 1mm per meter
Range	-	0.2 – 30m
Angular	-	Range: 0 – 360°
	-	Accuracy: +/-0.09°
Laser	-	Accuracy: +/-1mm
	-	Resolution: 1mm
File Types	-	CSV
	-	SCO
	-	SCN

Tablet Specification

Type	-	Getac T800 Basic
Display	-	8.1" HD Lumibond Touchscreen
Operating System	-	Windows 8
Data Removal	-	USB or Wireless transfer
Battery Life	-	Typically 9hrs (using additional snap back battery supplied)
Rugged Features	-	IP65 Rated
	-	6 feet drop resistant
Temperature	-	-20°C to 50°C

Falconer Road | Haverhill | Suffolk | CB9 7XU | UK t +44 (0)1440 702938 e sales@abtus.com w abtus.com @AbtusLimited

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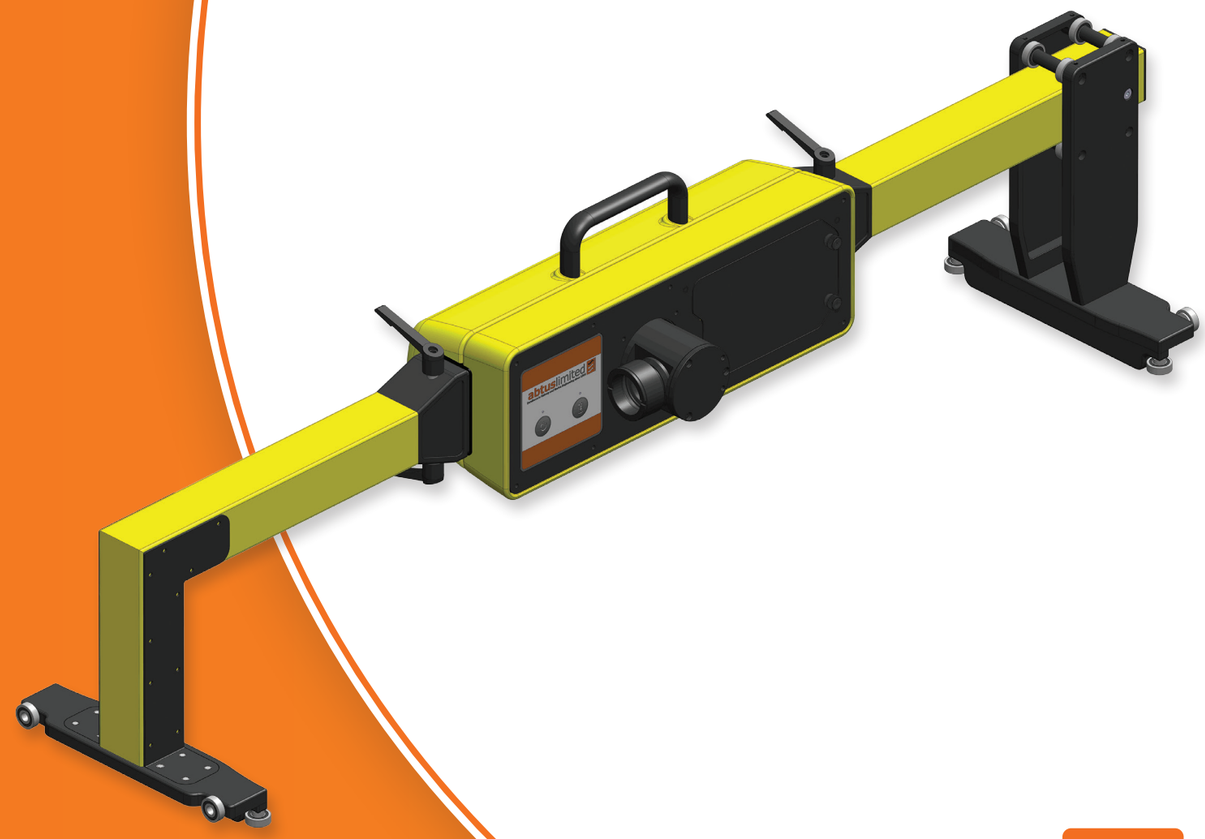


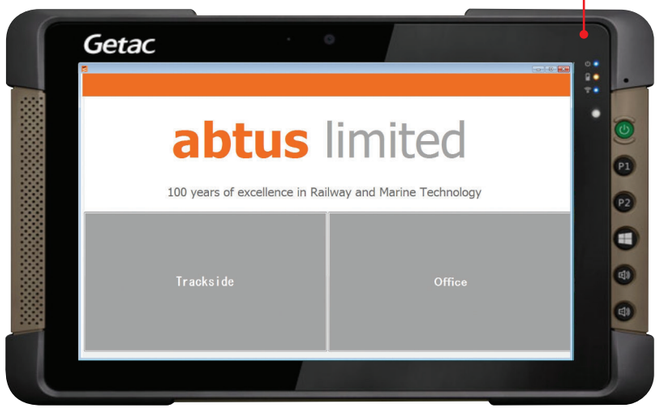
Laser Scanning

RouteScan

Real time 360°structure profiling

Device Control

The ABT5650 is controlled via Bluetooth communication with a Rugged Getac T800 8.1" Tablet running the latest version of the Abtus Gauge Interface Software. This provides the user with robust and reliable device control in all environments. The Abtus Gauge Interface offers the user all necessary tools to adjust the RouteScans parameters on track, whilst providing simple device control and measurement review capabilities. Data recorded can be viewed on track or can be removed from the device via USB in .CSV, .SCO or .SCN file format. The Abtus Gauge Interface can be provided in a variety of languages and can thus be tailored to individual user's needs.

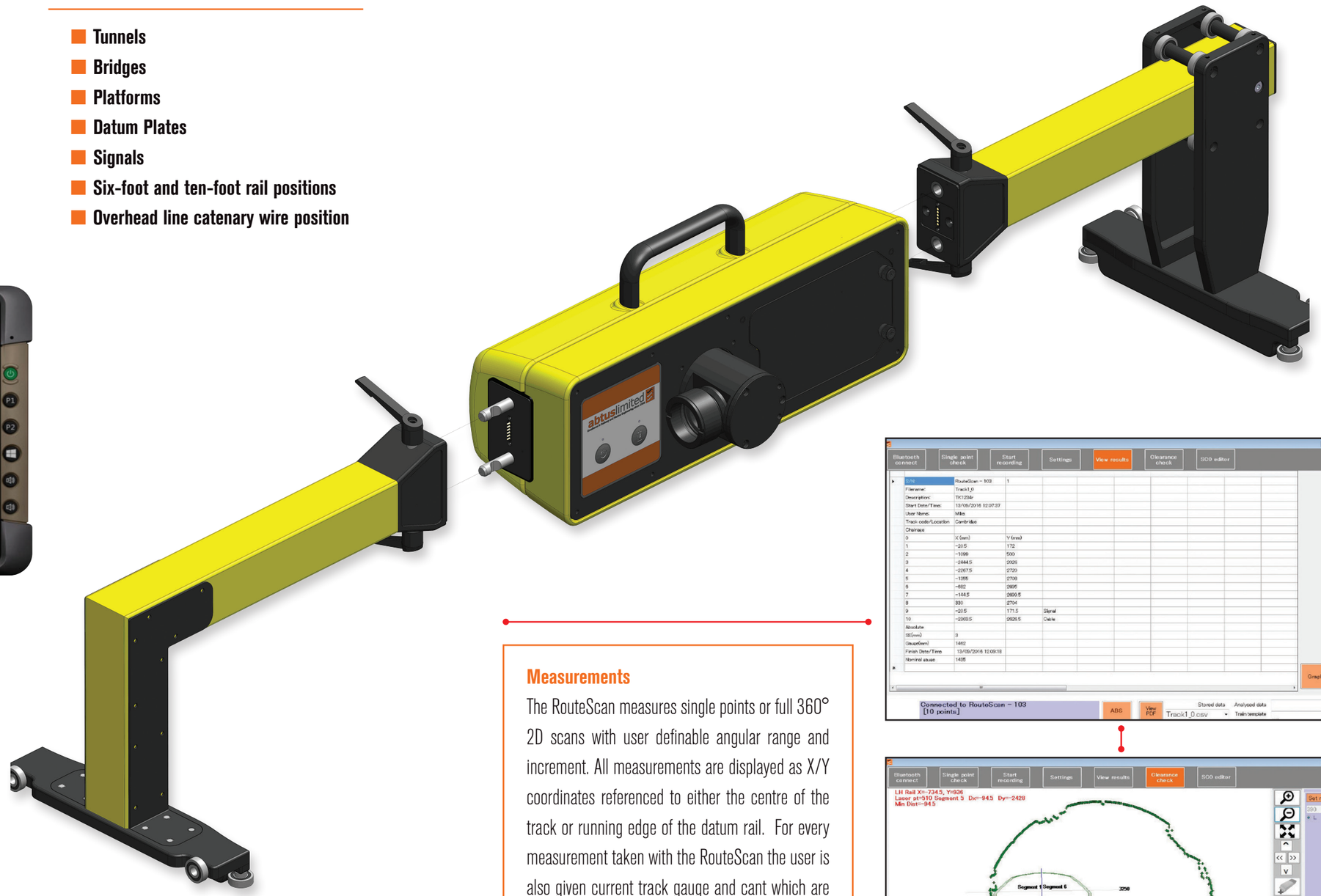


Technical Features

- Lightweight
- Electrically non-conductive
- Collapsible
- Swappable, rechargeable batteries
- External battery life indicator
- Language configurable
- Fast scan speed
- Customisable clearance software

Measurement Capabilities

- Tunnels
- Bridges
- Platforms
- Datum Plates
- Signals
- Six-foot and ten-foot rail positions
- Overhead line catenary wire position



Physical Properties

On track, the RouteScan's lightweight, handheld design means the user can easily carry to and from site ensuring easy and quick access to track, whether red zone (trains running) or during a possession.

Off track, the RouteScans collapsible design and small, rugged transit case, mean transportation to and from site is done with ease. In fact the RouteScan has been designed to be transported by small car as well as larger vehicles.

Measurements

The RouteScan measures single points or full 360° 2D scans with user definable angular range and increment. All measurements are displayed as X/Y coordinates referenced to either the centre of the track or running edge of the datum rail. For every measurement taken with the RouteScan the user is also given current track gauge and cant which are recorded simultaneously with every scan. A typical 180° profile in 1° increments will take less than 60 seconds ensuring the number of scans per shift can be maximised.