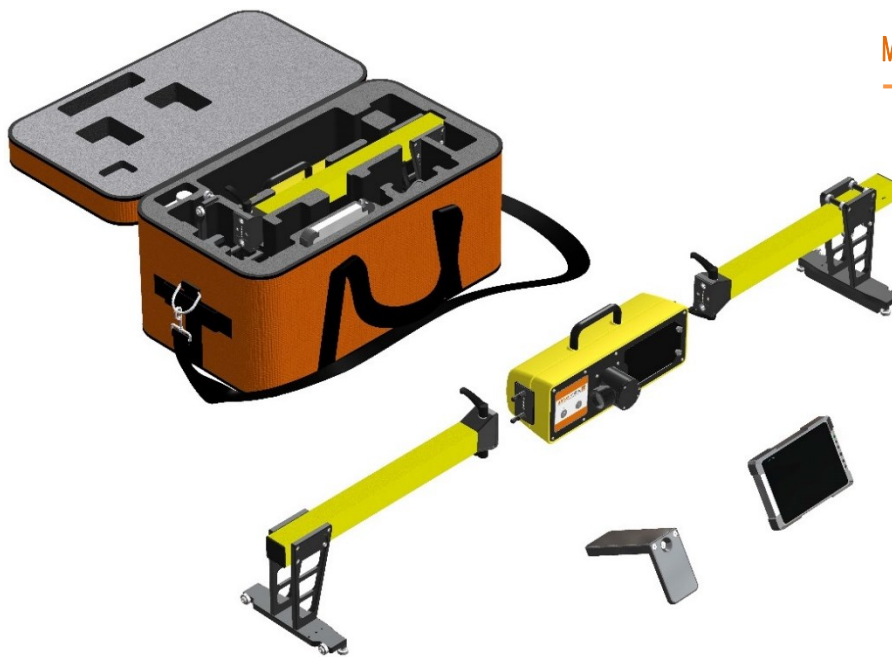




The **Abtus ABT5650 RouteScan** provides quick and accurate structure clearance measurements relative to the Permanent Way through the use of 2D laser scanning technology.

The unit is lightweight, electrically non-conductive and easily transported making it the ideal tool for a highly time pressured rail environment. The two legs detach easily from the body, allowing the whole kit to be stowed in a single small carry bag.



### Measurement Capabilities

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

Bluetooth communication allows operation of the device from a position of safety offering significant benefits over more traditional gauging methods. The battery indicator button can alert the user of the remaining charge and the battery can be removed/swapped by accessing the front panel via the thumb screws. This allows for prolonged use of the RouteScan during long shifts.

The ABT5650 measures X/Y coordinates as single points or full profile scans, referenced to the running edge of the datum rail. The RouteScan also provides the user with accurate track gauge and SE readings whilst the sprung gauging foot ensures repeatability of positioning and measurement.



As standard the ABT5650 is provided with a fully rugged windows 10 tablet and Abtus Gauge Interface Software allowing single point and profile scanning. Through extensive development with existing RouteScan customers, Abtus can also supply bespoke clearance software allowing the user to review interference between the scanned structure and a train profile whilst taking into consideration cant and track radius.



### Technical Specification

Weight	-	13.6kg	Range	-	0.2 - 15m
Size	-	1655mm x 315mm x 265mm	Angular	-	Range: 0 - 360° Accuracy: ± 0.09°
Cant	-	Range: ± 200mm	Laser	-	Accuracy: ± 1mm per metre
	-	Accuracy: ± 1mm		-	Resolution: 1mm
	-	Resolution: 0.1mm			
Gauge	-	Range: -25mm to +50mm from nominal (1435mm)	File Types	-	CSV
	-	Accuracy: ± 1mm		-	SCO
	-	Resolution: 0.1mm		-	SCN