

TrackPad

Rugged Tablet PCs for Track Inspectors

TrackPad is a rugged outdoor use tablet with software that provides information on track defects, their location and images. Once the track has been imaged, and image data analysed for defects using Rail Vision's Enhanced Visual Inspection (EVI) software, the output analysis can be directly uploaded into TrackPad for a walking inspector, track engineer or maintenance staff to use. In addition, a range of other measurements made by Rail Vision or a third party are also allowed for import and review including track geometry, profiling, laser measurements, and ultrasonics. A local database on TrackPad contains information about all track defects, exceptions since previous runs and areas that need attention. TrackPad can be used for:



- Walking the track to locate defects: Coupled with real-time GPS capability, the application can navigate the track inspector to areas that need attention and summarise track condition for different geographic areas. The GPS module includes a GIS/Google map interface allowing track engineers to visualise the location of assets and receive directions to asset location. TrackPad users can also add to the local database their own defect data with images, and comments on any item. This information is synchronised with the central database using wireless communication, USB or internal memory card.
- Identifying track areas where maintenance is to be performed: Defect images with location information coupled with navigation tools on TrackPad allow maintenance staff to locate defects in a short period of time. Once maintenance is completed, records can be updated on TrackPad which allows for maintenance information to be integrated with central database.
- Generating defect and exception reports in the field which can be printed. A range of summary reports on track condition are available. These can be used for track side meetings and review of track condition.

Using the latest in mobile technology, the track inspector can download and view track images of defects and record observational comments on track assets and their condition. TrackPad uses Windows based software with networking and GPS capability to provide best performance in the field. The customised hardware for TrackPad has been designed and tested with the needs of rail track engineers in mind and has the following features:

- Full touch sensitive VGA resolution display to allow field workers to see finer details in maps and images under variable lighting conditions, with large, tactile, backlit keys
- Rugged design for use in hazardous environments
- Additional extender caps (communication, GPS), with power dock and travel charger

Some of the key benefits of TrackPad include:

- TrackPad device shows track defects with location and allows operators to navigate to these track positions to further review asset condition and make notes
- Information on assets repaired can be entered through TrackPad to update the central database
- Asset and exception reports are available to track inspectors whilst walking the track
- Track inspector can add information on track assets and component condition with photos
- GPS module navigates the track inspector to desired locations in a timely manner
- GIS layout of results is available for better understanding of infrastructure assets and track condition
- The local database of analysis on TrackPad is synchronised with the main back office database remotely or via removable memory, thereby giving the latest and correct information to the track inspector at all times

For more information, please contact Rail Vision

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