

System Requirements	<p>Operating System: Microsoft Windows 2000, Windows XP, or Windows VISTA</p> <p>CPU: Intel Pentium 4, AMD Athlon or Equivalent Processor with minimum of 1,5 GHz</p> <p>Memory: Minimum 1 GB, recommended 2 GB RAM, 20 GB Free Hard Disk Space for Data processing</p> <p>Graphics Adapter: Minimum of 1024 x 768 pixel resolution with 16/32 Bit Depth and 64 Mb Graphics Memory, recommended 1280 x 1024, 32 bit double screen</p> <p>Interfaces: 1 free USB-port; Direct or USB-Hub for software security key</p>	Supported Road Measurement Equipment Data Formats	<p>GPR: Geophysical Survey Systems Inc (GSSI), Malå GeoScience, Sensors & Software, IDS, 3D-Radar. User Defined format - 8, 12, 16 or 32 bits signed or unsigned integer or single or double precision IEEE floating point value having 32 - 8192 samples per scan. Supports sample and scan aligned multi-channel Data.</p> <p>Falling weight: Kuab, Dynatest, Carl Bro, User Defined list formats</p> <p>Profilometer: Dynatest RSP, Finnish PTM, RST and Greenwood. User definable formats</p> <p>Video: All Windows supported Video Formats - mpg, wmv, avi, etc</p> <p>GPS: All GPS-equipment with NMEA-standard output or user defined tabulated format.</p>
Project Handling	<p>Tree view: File based database for data storage. All data aligned to Lines, Projects and Project Groups</p> <p>Backup: Specified data in projects can be backed-up to ZIP-files</p> <p>Log keeping: program keeps record of users, changes to data, linked files etc.</p>	General Features	<p>Support for SI- and US-units both for distance and data units</p> <p>Data conversion to SI-units for internal handling</p> <p>Several supported user interface languages: English (default), Swedish, Finnish, German, French, Spanish</p> <p>On-line documentation (F1-key)</p>
GPR-Data Processing	<p>On-line processing: Static Background removal, DC-level removal, Automatic and user defined signal amplification, Arithmetic operations, Time domain vertical and horizontal filtering, Hilbert transform, Kirchoff-Migration, Trace and Data Section Muting, Correlation filtering operations, Bouncing removal operation</p>	GPR-Data Interpretation	<p>Displays any GPR-interpretation made using Road Doctor Pro, Road Doctor GPR or Geo Doctor.</p>
GPR-data Display	<p>B-scan view: 16 to 256 simultaneous colours, User definable colour transform threshold and from 16 selectable transforms. Multiple profiles in the same view, combined or in different subwindows. Shown distance section freely selectable.</p> <p>Cross-section view: in the case of multiple profiles from the same line.</p> <p>A-Scan view: from selected subwindow</p> <p>Er-value, layer depth, layer thickness</p>	GPR Interpretation Output	<p>Vector Interpretation: All layer and set object information can be printed to user defined formats. Formats can be saved for later use. Ouputted parameters are for example, layer thickness, depth, code, quality, location as distance, xyz-coordinate, offset, reflection amplitude, vector point number, layer number etc.</p> <p>Air-coupled data interpretation: multiple predefined and user defined formats for printing Average, Min, Max, St Deviation.</p>

Road Analysis Tools	<p>Manual road analysis: Up to 20 different user definable analysis parameters and annotation fields. Analysed sections are highlighted using the mouse.</p> <p>Automatic analysis: Utility to classify road sections based on road measurement data and given rules.</p> <p>Pavement distress inventory: Visual pavement inspection tools utilizing video or image-list. Both continuous and fixed distance analysis modes available.</p> <p>Pavement Life-time estimation based on rutting or roughness values</p> <p>Bearing capacity analysis based on falling weight and layer thickness measurements.</p>	Road Rehabilitation Design	<p>Road structure design without geometric changes in the road</p> <p>Operations, material properties and costs are user definable. Total masses and costs can be automatically calculated during and after desing.</p> <p>Order of operations can be visually defined.</p> <p>Structure dimensioning using Odemark method.</p> <p>Elmod link for calculation of layer modulus. Elmod needs to be bought separately from Dynatest.</p> <p>Forward calculation of pavement, base and subgrade modulus.</p> <p>Design visualization using list of operation view and/or structure view.</p>
Falling weight	<p>Outputting the falling weight results as deflection curves with or without profile average curve.</p> <p>Surface moduli and layer moduli output.</p> <p>SCI and BCI output (also as user definable)</p>	Profilometer	<p>Roughness and rutting data format output. Operator can select the outputted parameter.</p>
Database	<p>Supported databases are: Tabulated text tables, MS Excel, MS Access, Oracle, dBase, Paradox, MySQL</p> <p>Database can be linked as project database, which is linkable to all lines</p> <p>Data searches can be done to all database types</p> <p>View types: Data value, bar graphs, line graphs, area graphs, surface plots. Surface plots make possible to create contour images.</p> <p>Database data can overlay any other data.</p> <p>Database can have offset row, which can be used for contour plots</p> <p>Single column can be used as arrangement column (dates etc).</p>	MAP view	<p>Supported image formats are TIFF, JPG, PNG, PCX, BMP, WMF, EMF</p> <p>Reads georeference information from ArcGis and Mapinfo linked images, otherwise manual georeferencing using 2 points.</p> <p>Supports Road Doctor analysis and database formats for data reading. Direct link between Data view and Map view.</p> <p>Several display formats, draw offset, data classification 1 to 9 classes, automatic legend, distance pole, north arrow and company logo display.</p> <p>Map saving to image, clipboard, and project tree.</p> <p>Linking the lines to GPS make possible realtime data scrolling and displaying in the field</p>
Video	<p>Video shown and synchronized with other data. Includes tools for subtitling the locations and date/time to video.</p> <p>Handles also extra long videos splitted to multiple video files.</p>	Images	<p>Images are linked as image-lists which can be shown in separate multi-image view or in the place of video in a dataview.</p> <p>Images can be shown also in data subwindows with or without scaling</p>
General View Properties	<p>Several Views can be shown simultaneously</p> <p>Every view can have several subwindows with different or similar datatypes</p> <p>Views can be saved as is for later use or as view templates for use with other lines.</p> <p>All data is synchronized to each other.</p>	Coordinates	<p>Uses Franson coordinates transform library for exact transformation between GPS and different Grid-coordinate systems. Supports all UTM and EUREF-transformations and several other country specific formats. Other format support added if required.</p> <p>Line chainage and measurement positioning using Areal/Road Network coordinates</p>