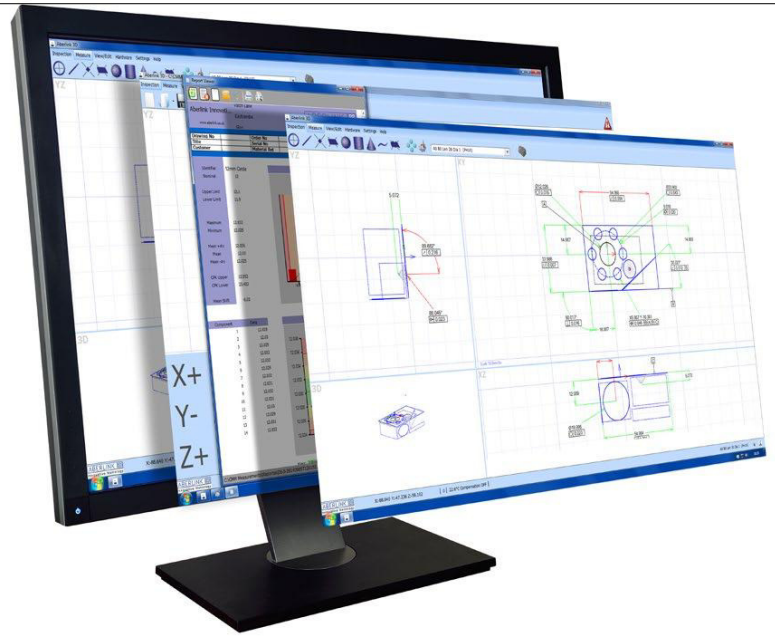
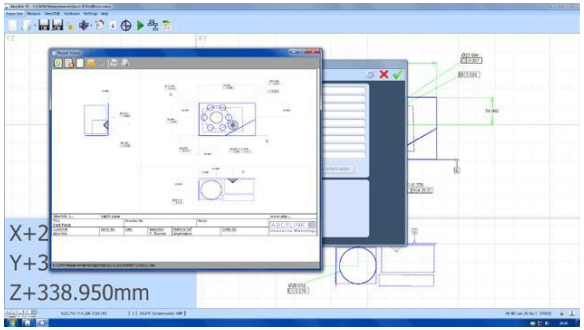


ABERLINK 3D

MAKING MEASUREMENT EASY



The whole philosophy for Aberlink is to make measurement easy. Aberlink 3D software has been written by engineers for engineers and sets the industry standard for simple-to-use software. Designed around a graphical interface, Aberlink 3D can work in 2D or 3D, on manual or CNC CMMs and is equally at home when used with either touch, scanning or vision systems. It is easy to understand why Aberlink 3D has become the software of choice not only for Aberlink, but for numerous other manufacturers of measuring devices around the world.

Aberlink 3D software is not only way ahead of its competition in being the industry standard for 'easy-to-use' software, but also has the depth of functionality to make it the choice for either occasional users or full-time inspection professionals.

Key Features:

- Automatic measurement routines
- Powerful interactive graphics window
- Automatic feature recognition
- 2D and 3D manual and CNC inspection
- Geometric feature inspection
- Free form surface measurement
- DXF data import/export
- STEP and IGES export for reverse engineering
- Feature construction
- GD&T dimensions and tolerances
- RPS Allignment
- Leap frogging

Programme Tools:

- Teach & repeat programming
- Drag and drop programme editor
- Run programs from any point
- Measure a subset of features
- Simple object-based programming
- No complex programming language
- Automated batch inspection
- Password protect programmes
- Automatic safety moves
- Feature replicator
- Mirror imaging

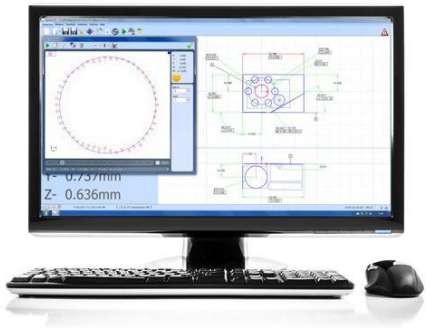
Report Formats:

- Engineering drawing GD&T report
- Simple PASS/FAIL report
- Form plots
- Batch summary report
- Tabulated reports
- Graphical fly-out labels
- Drag & drop reporting
- Real-time SPC
- Combine multiple views
- Export to Excel
- Historical data reporting

Aberlink 3D software is revolutionary. As a component is measured a representation of it is built up on the screen. The user simply clicks on the measured features to call up dimensions exactly as they would appear on a drawing.

Inspection reports can be in the form of fully dimensioned graphical representations as created on the screen, or tabulated reports in various formats that can show nominals, tolerances, errors, pass/fails, geometric tolerances etc. These reports can also be output to an Excel spreadsheet.

Further reports are available to show the form of features (roundness, straightness etc.), hole or point positions, or complete batch results on one report. The user's company name also appears on all outputs.



Every time a component is inspected, a programme for measuring subsequent components is automatically created. The software also calculates 'safe' moves between features, even when the probe is indexing – just another thing that the operator doesn't have to worry about!

Popular throughout the world and available in many languages, Aberlink's revolutionary measurement software provides the user with a powerful, yet easy-to-use solution for inspection measurements. This not only increases component throughput but vastly reduces the learning period for new users.

Every Aberlink 3D license also benefits from no annual subscription or maintenance fees and free software upgrades for life, hence minimal cost of ownership.

Welcome to cost-effective precision.

DID YOU KNOW?

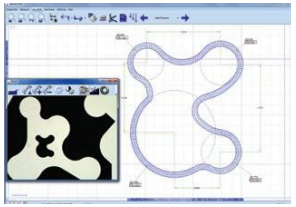
Aberlink's revolutionary 3D software inspection package is available for CMM retrofits, vision systems, articulating arms and other metrology platforms

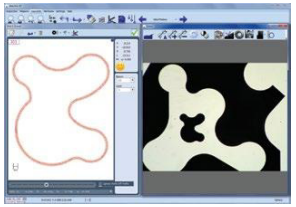
VISION SOFTWARE

SOFTWARE MODULE

The Aberlink Vision software module allows Aberlink 3D software to be used for non-contact measuring. Fully automatic edge detection tools can be used in both manual and CNC mode ensuring fast and repeatable results without relying on the skill of the operator.

Powerful tools allow both geometric and complex shapes to be measured easily. Dimensions can either be called up by clicking on the measured features in the normal way, or alternatively measurement points can be best-fitted against a DXF file. As well as edge detection the operator may use either full cross hairs or mouse cross hairs with other advanced tools available including "smart measure", centre line detection, an "all edge points" function, a "thread measure" tool and a "screen ruler" for quick measurements between any two points on the image.





Key Features:

- Full colour video image
- CNC and manual machine controls
- Auto focus
- Digital Zoom
- Light intensity and direction
- Align to edge
- Automatic 2D profile scanning
- Scan geometric features
- Scan individual features
- Scan all visible features with a single mouse click
- Digitise 2D profiles - data export via DXF
- One-click feature measurement
- Smart auto-recognition & measurement