

WinDRO

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Cost Effective Digitising Software for Manual & CNC Inspection Applications

ITP Group's WinDRO software solution is an easy-to-use Digital Read-Out package for manual and CNC measurement, digitising and reverse digitising. Options are available for *Set Datum* and *Reverse Axes*, as well as for both touch and solid probes.

ITP Group WinDRO software is designed for modellers, styling studios, pattern makers and prototyping where only basic measurement and functionality is required.



Features & Benefits

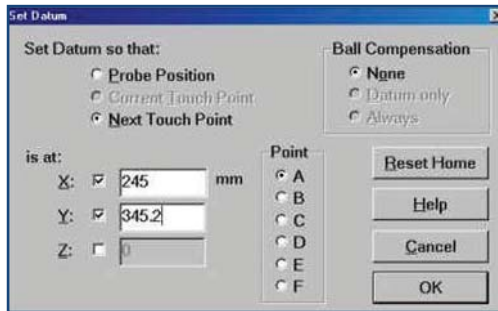
- **Multi-Function Digitising** Normal / Digitising / Reverse Digitising modes using Renishaw touch or solid probes
- **Graphical Display** Large graphical display outlining current position, current & previous touch point
- **Graphical View Options** Graphical view of digitised points with ISO and 2D views and onscreen removal of 'rogue' digitised points
- **Datum Functionality** Ability to manipulate datum & preset individual axis current position, previous touch point and next touch point
- **Axis Travel Control** Axis travel directions can be altered to orientate inspected parts
- **Multi-File Format** Digitised points can be stored to IGES, DXF, CSV or text files
- **CNC Options** CNC automatic digitising with easy set-up for start and end points
- **Zero Down Function** Reverse digitising of CAD sectional file data back onto clay model with *Zero Down* function, allowing the operator to easily move to the next point by setting the DRO axes to zero

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Functionality

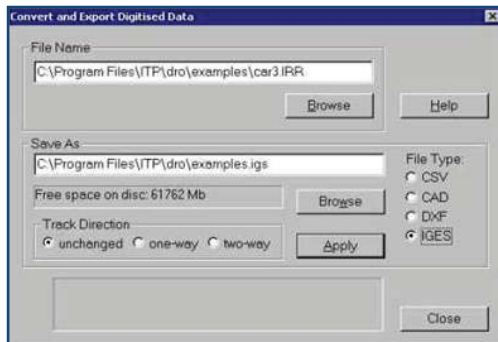
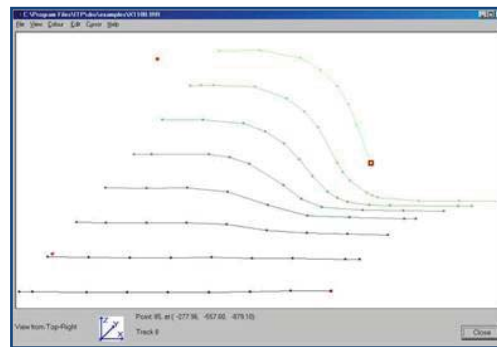


Set Datum

The *Set Datum* routine allows the operator to datum / preset any axis with a Renishaw touch or solid probe

Digitised Data View Window

The *Digitised Data View Window* allows ISO and 2D views of digitised tracks with onscreen editing and removal of rogue points. Digitised data can be saved as IGES, DXF, CSV or text



Export Digitised Data

A saved digitised data file can be loaded as IGES, DXF, CSV or text file and then converted and exported under another file format

Reverse Digitising

The reverse digitising option is specifically designed for clay modellers to allow them to 'balance' a part. For example, by digitising one side of a car body, and then reverse digitising the data, the opposite side of the vehicle can be created and 'balance' the model.

The system can also accept CAD section point data and easily reverse digitise onto a new clay model. Using a solid probe, the operator could set each point in 2 axis and then drive the solid probe into the clay to set the third axis.

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The reverse digitising option has the unique *Zero Down* option to aid this process, which allows the operator to move to the next section point by driving each axis to zero. The operator is also aided by the display on the WinDRO read-out, which can be set to change colour when the operator is within a configurable tolerance.



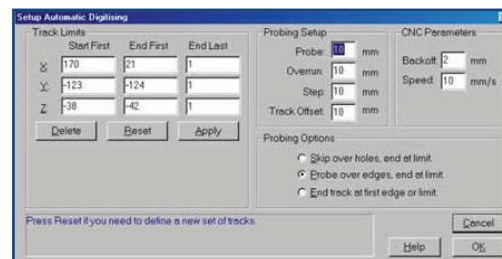
In this example, Track 1 - Point 1 is X +30.001 / Y -151.60 / Z +11.397, but the operator does not have to remember these three figures. Simply drive each axis down to zero within an outer tolerance (eg. 5mm) from zero for the display colour to change to green. When within an inner tolerance (eg. 1mm) from zero the display colour will change to white.

The operator can move on to the next section point by hitting the space bar or *Next* button, and back by hitting the *Previous* button.

CNC Digitising

The CNC digitising option can digitise axial or skewed 2D / 3D sections or 'tracks' automatically with an easy set up screen.

The operator can simply probe the end of the last track, then probe the end and start of the first track. Finally, set the between-points as well as the track offset and the system is ready to go.



Minimum System Requirements

- Pentium P4 Processor
- 256MB RAM
- 40GB Hard Disk Space
- Windows 2000 / XP