

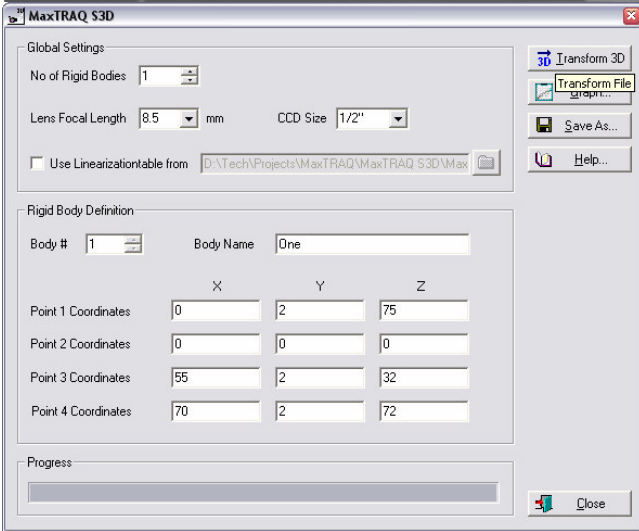
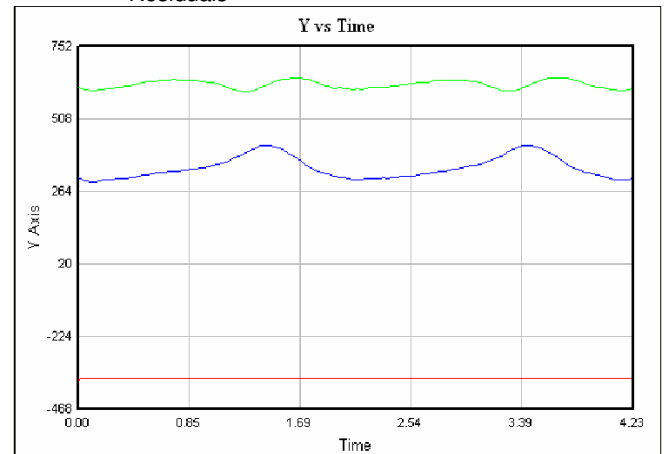
MaxTRAQ S3D

Single Camera 3D Video Based Motion Tracking

MaxTRAQ S3D software module works in conjunction with MaxTRAQ to transform 2D data captured from a single camera to 3D data. The single camera 3D transformation uses rigid bodies with four markers with known dimensions. You can use up to 10 rigid bodies per test. One of the rigid bodies can be used as a reference so the data can be transformed into a known coordinate system.

You can use any standard off the shelf camera or a high speed camera. The transformed 3D data can be quickly previewed to verify quality of. Once you have transformed the 3D data, the following graphs can be previewed.

- X vs. Y
- Y vs. Z
- Y vs. Time
- X vs. Time
- Z vs. Time
- Residuals



MaxTRAQ 2D is the "Base/Core Module" for S3D

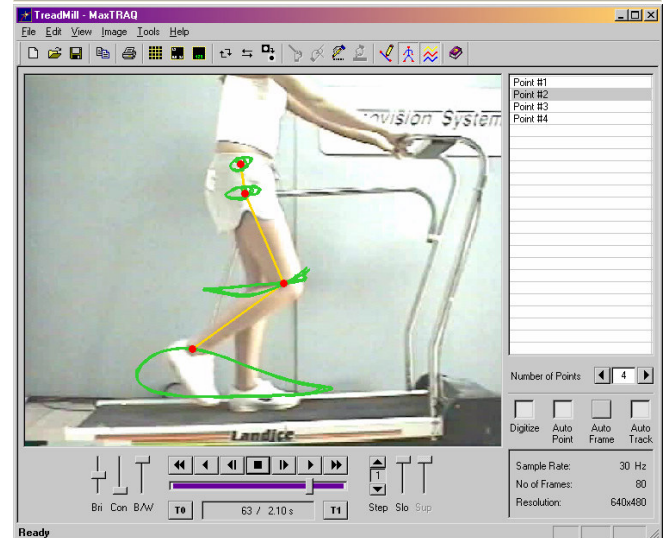
MaxTRAQ is an inexpensive motion analysis software module with a "High Performance" attitude. It offers several different tracking modes for flexibility. Best of all, it's the most affordable package available worldwide. You now have the opportunity to integrate MaxTRAQ and MaxMATE into your classroom, use it as a training tool, or even add a new dimension to your research. Since MaxTRAQ is modular by design, you can start with MaxTRAQ 2D and easily upgrade to 3D when you are ready. Simply add the 3D Upgrade module.

AUTO TRACKING w/MARKERS & MANUAL TRACKING

The Automatic Tracking feature is extremely robust. Track your data with confidence. You can go through frame by frame to look at angles, distance between points, etc. For applications where markers are not an option, there is a "manual" tracking mode with an auto "advance to the next frame" feature making the task of manually tracking each marker much easier. Use MaxMATE analysis software if you need more advanced analysis.

INEXPENSIVE ~ EASY TO USE ~ FLEXIBLE

Analyzing motion does not need to be expensive or hard to use. MaxTRAQ is a flexible solution for your budget. No need to buy a new camera. Use your already existing camera. MaxTRAQ does not discriminate which camera you choose to use. All you need are AVI or MPEG files. MaxTRAQ can run as a stand-alone application, automation server, or as an ActiveX component and can easily be integrated into other analysis packages such as our MaxMATE.



Visit our web site and download both MaxTRAQ 2D and MaxMATE [free](#) for 15 days.

MaxTRAQ S3D Specifications (supports any 3 rd party cameras)											
Features:											
Max. number of rigid bodies	10										
Supported file formats	AVI, MPEG										
Tracking modes	Manual and Semi-Manual Digitizing and Auto Tracking										
Export data format	ASCII										
Sub-pixel tracking accuracy	Yes										
Upgradeable to 3D	Yes										
Image control	Bright, Contrast, B/W, Rotate, Flip, Invert										
Trace	Yes										
Stick figures	Yes										
Export images	AVI										
Notations area/note pad/test box w/pointer	Yes										
Zoom	Yes										
Analysis / Tools / Preview Graphs	Distance, Angles, Stick, Scale (<i>can preview various graphs, see data sheet</i>)										
Grid capability	Yes										
MaxTRAQ 3D Upgrade (from MaxTRAQ 2D) Specifications											
Features:											
Wand calibration	Yes										
Max. number of Basler cameras	Up to 4 (currently supports Basler cameras in 3D)										
Hardware synchronized	Yes										
File formats	C3D, ASCII										
MaxMATE 2D/3D Analysis Specifications											
Features:											
Number of markers	Up to 50										
Built-in "importer" – Various file formats	C3D, Generic Text, Phantom PPT, Exported TEMA Files, Selspot SDI										
Analysis – Calculations- Plots & Graphs	<table border="0"> <tr> <td>Position in plane</td> <td>Angular acceleration</td> </tr> <tr> <td>Position vs. time</td> <td>Rotation (6DOF)</td> </tr> <tr> <td>Velocity/Acceleration/Speed</td> <td>Stick figure plot</td> </tr> <tr> <td>Angle (planar or 3D)</td> <td>Projected points</td> </tr> <tr> <td>Angular velocity</td> <td></td> </tr> </table>	Position in plane	Angular acceleration	Position vs. time	Rotation (6DOF)	Velocity/Acceleration/Speed	Stick figure plot	Angle (planar or 3D)	Projected points	Angular velocity	
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Position vs. time	Rotation (6DOF)										
Velocity/Acceleration/Speed	Stick figure plot										
Angle (planar or 3D)	Projected points										
Angular velocity											
Output	Graphs & Spreadsheets										
Data types	2D and 3D										
Stick figures	Yes										
2D Scaling	Static and dynamic										
Filters	Graph smoothing										
Plot option	Normalized, Relative										
Angles	2,3 and 4 points										
Angle option	+/- 180/360, projected										
Customization	Graph templates, Macros and VBA										
Computer Requirements for MaxTRAQ 2D and MaxTRAQ S3D											
CPU	Pentium Class										
Memory	256MB / 256MB (min)										
Video card	True Color (32 bit) recommended										
Operating system	Window® 2000 or XP										
Supported Excel versions	97/2000/2002										