



Bringing affordable motion analysis to the world

Video Based Motion Analysis

## MaxTRAQ 2D and 3D Video Based Motion Tracking

MaxTRAQ is an inexpensive motion analysis software module with a "High Performance" attitude. 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.

### AUTO TRACKING & 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 automatic "advance to the next frame" feature making the task of manually tracking each marker much easier.

### INEXPENSIVE ~ EASY TO USE ~ FLEXIBLE

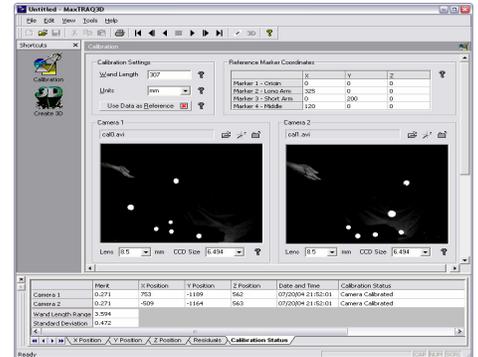
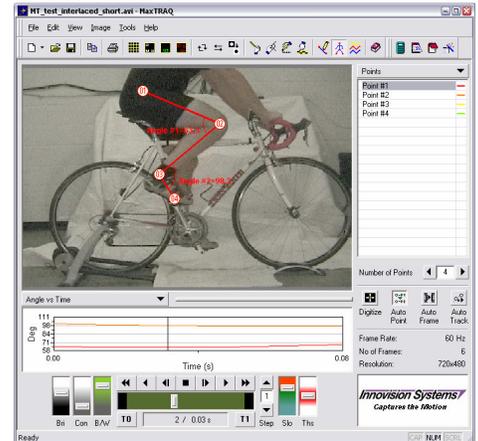
Analyzing motion does not need to be expensive or hard to use. MaxTRAQ is a flexible solution for your budget. No need to buy a new camera. Use your already existing camera. MaxTRAQ does not discriminate which camera you choose to use. All you need are AVI or

MPEG files. MaxTRAQ can run as a stand-alone application, automation server, or as an ActiveX component can easily integrated into other analysis packages such as our MaxMATE analysis module.

## MaxTRAQ 3D Overview

MaxTRAQ3D can synchronize up to four cameras. The wand calibration is pretty cool. Not only will it calibrate the cameras, it will linearize them too! After extensive calibration testing, our experts have concluded that we were able to achieve very high accuracy (below 1mm in a meter cube). This of course is dependent on your camera, video, markers, etc. For complete information on MaxTRAQ 3D please ask for a specification sheet.

- Wand or Static Calibration
- Up to 4 Cameras w/Hardware Sync
- Up to 99 Markers
- Creates C3D and ASCII Files



calibration view

## MaxTRAQ New Features

### Video Recorder

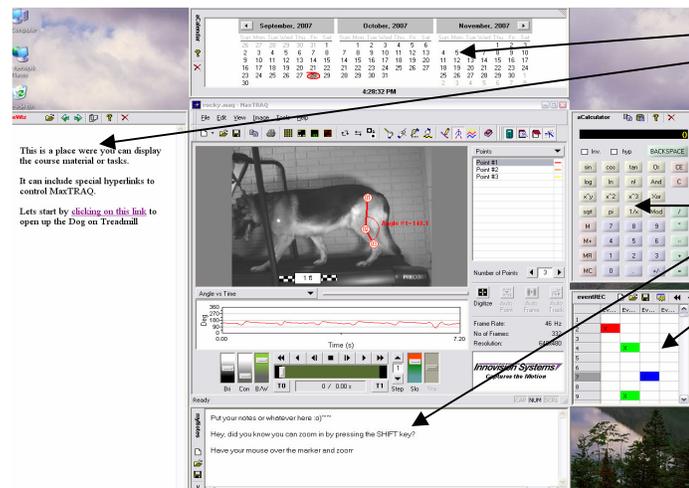
A Video Recorder has been added to allow you to record videos from Direct Show compatible cameras such as camcorders and webcams. To access the recorder, use File-New-Recording.

### SimpleScript

A simple scripting feature has been added. This allows you to control MaxTRAQ by putting commands in a text file. A Repeat command has been included to allow batch recording/processing. All the script commands are also available as special hyperlink commands (see Widgets). For more information on scripting, see our Tutorials.

### Widget Applications

New feature called Widgets has been added to MaxTRAQ. These widgets are mini applications that are attached to the MaxTRAQ window. They can be displayed or hidden and can be attached to any of the 4 sides of the window. Current Widget Applications include;



<b>aCalendar</b>	Simple calendar
<b>theWiz</b>	This is a mini browser that understands special MaxTRAQ hyperlinks that can be used to control MaxTRAQ from theWiz. The intention of theWiz is to provide a simple way to create wizards or student course material that the user can follow along. The default file extension for theWiz is HTM or HTML. See the scripting tutorial for more info.
<b>aCalculator</b>	Scientific calculator
<b>myNotes</b>	A notepad to allow you to keep notes. The notes are saved as text files. You can drag and drop a text file onto MaxTRAQ to open up the file in myNotes.
<b>eventREC</b>	Manual Event Recorder. Allows you to step through the video and record events such as heel down/toe off etc.

- ♦ Teachers can use their own course material in theWiz
- ♦ MaxTRAQ a great Mocal tool to complement current curriculum
- ♦ MaxTRAQ is used worldwide as a teaching tool/lab course
- ♦ Different software licensing available:  
**single, network, subscription, dongle**

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

MaxTRAQ 2D Specifications	
<b>Features:</b>	
Max. number of markers/targets	99
Supported file formats	AVI, MPEG, BMP, JPEG
Tracking modes	Manual and Semi-Manual Digitizing and Auto Tracking
Export data format	ASCII, C3D
Sub-pixel tracking accuracy	Yes
Upgradeable to 3D	Yes
Image control	Bright, Contrast, B/W, Rotate, Flip, Invert, Zoom
Visuals	Trace, Stick Figures, Grid Capabilities
Stick figures	Yes
Export images	AVI
Notations area/note pad/test box w/pointer	Yes
Analysis / Tools	Distance, Angles, Velocity, Stick Figures, Scaling Tool, Projected Points Center of Mass, Event Recorder, Customizable Wizard
Video Recorder	Record from Direct Show compatible cameras
Scripting	Put commands in text file – Repeat command for batch recording /processing – Script commands avail. as special hyperlink commands (see Widgets)
Codec Information	Yes
MaxTRAQ 2D Software Editions	
<b>Features:</b>	<u>Educational</u> <u>Lite+</u> <u>Standard M2</u>
Auto-tracking	
Video Recorder	X
SimpleScript	X
Widgets	X
Network Licensing (see chart)	X
Hardware Dongle (w/purchase)	X
MaxTRAQ 3D Upgrade / Specifications	
<b>Features:</b>	
Calibration	Wand, Static
Max. number of cameras	Currently up to 4
Hardware synchronized	Yes
File formats	C3D, ASCII
Computer Requirements for MaxTRAQ 2D	
Operating system, CPU, Memory, Video card	Window® 2000, XP or Vista, Pentium Class, 512 MB, True Color (32 bit) recommended
Licensing Options (MaxTRAQ/MaxMATE)	
Single	License registered to a single computer that does not expire
Network	Server based licenses for use by multiple users
Subscription	Licenses purchased at a discount that expires after set time period, renewable
Dongle	Single license that is on the dongle hardware. The dongle connects to the computer via USB connection. When dongle not present, software will not run. Recommended if you want to run software on multiple computers or if you reformat computer regularly. \$50 extra charge