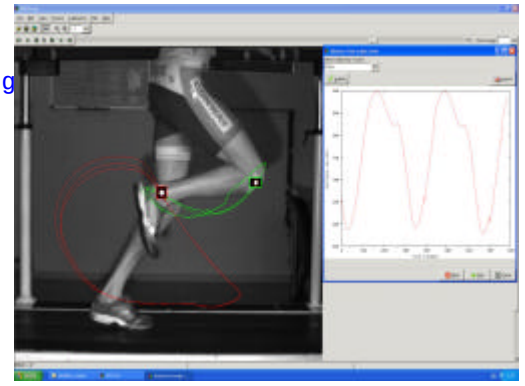
PROTrack Motion Analysis Software

PROTrack is the motion analysis software for interactive analysis and contactless measuring of image sequences.

PROTrack supports contactless and damage free simultaneous tracking of moving measurement objects. Image sequences of up to 99 objects may be tracked.

Interactive analysis and measuring of image sequences for contactless track - time measurement

- Markerless or marker-based object tracking
- Simultaneous tracking of up to 99 objects
- Comprehensive visualization of results
- Available for Linux and Windows®
- Data export to common spread-sheet software



The interactive analysis can be performed without markers or via tracking of retro-reflecting markers. With the analysis of image sequences recorded by means of high speed cameras it is possible to track extremely fast actions. The position of the tracker during the image sequence is shown as a trajectory line.
Data gathered with PROTrack display the track, acceleration, speed, distance and angle in relation to time. The acquired data can be displayed in graphics directly after measuring.
After measuring, the acquired data can also be exported into common spread-sheet software. The exporting of partial image sequences is possible.
Three different types of trackers are available which can be selected on the related image structure. A correlation-based algorithm, which is suited for most applications; an algorithm especially for retro-reflecting markers, which are typically used in biomechanics; and an algorithm which is made for rotating structures.

To improve the view on objects a free adjustable zoom function is available.
PROTrack is available for Linux and Windows® 2000/XP and supports the Linux file formats png, bmp, pm, pbm and the Windows® file formats avi, bmp.
The software allows the navigation modes Play, Fast Forward, Fast Rewind, Slow Forward, Slow Rewind in the image sequences.
PROTrack projects can be stored and loaded.
Typical applications are coming from medical technology, sports, biomechanics, orthopedics, mechanical engineering, automotive and industry.