

moments of motion

Simi MATCHIX SOFTWARE  
AUTOMATIC OBJECT TRACKING WITH PATTERN MATCHING

**Automatic object tracking**

Simi MatchiX is an image processing software for automatic markerless tracking. The pattern matching algorithm can be utilized with video clips or freeze frame sequences. It automatically tracks user-defined patterns of different sizes. Thus, the system provides all necessary translation, rotation and time information about the markers.

- Markerless automatic pattern tracking
- Intuitive, easy to use interface
- Extensive import and export functions

**3 steps to success**

Three easy steps lead to your motion data:

1. Load video
2. Choose the objects
3. Start the automatic tracking

**Extensive features**

- Import a variety of video formats and video lists
- Support of highspeed camera frames (CIH, PSF)
- Support of image sequences (BMP, JPG, etc.)
- Calibrated data can be exported to various formats (ASCII text, Simi Motion, Microsoft Excel)
- Easy object tracking by marker trace
- Manual or automatic object tracking
- Extensively configurable marker properties (translation, rotation, size, colour)
- Different mathematical algorithms for pattern matching (NKKF, MAD)
- Stepless rotation, zooming and panning of the video image
- Calibration of the video image with just two mouse clicks
- Frame rate of the video can be adjusted unrestricted

**Capabilities**

- Mobile (laptop)
- Stationary (laboratory)

