



ImageExpress™ . . . MotionTrace

A Customized Motion Analysis Software Package

The *ImageExpress* **MotionTrace** software package allows the user to capture imagery from PCI Series cameras and analyze the motion of features in the resulting sequence. All functions are designed to give the professional the power he needs to conduct sophisticated and accurate motion analysis, while the interfaces are configured for use by a non-specialist. The software runs on a Pentium class PC with 64 Mb of RAM and the performance will benefit significantly if a Pentium II processor is present or Windows NT 4.0 is used to take advantage of dual CPUs.

Friendly

- Intuitive graphical user interface.
- No training required.
- Context sensitive on-line help.

Image Review

- Fast playback of recorded imagery.
- 2x, 4x, 8x, 16x, or 32x zoom window.
- Simple comparison with previously recorded sequences with up to four image windows.



Robust Automatic Tracking

- Designate points of interest with single mouse click.
- Fast and accurate track of selected objects.
- Automatic adjustment of tracking parameters to provide stable, reliable tracks of the designated objects through the image sequence.
- Full user control over automatic tracking features.
- Tracks through variable and poor lighting.
- Compensates for camera jitter.
- Tracks up to fifty points simultaneously.
- Allows for manual point entry and editing, if desired.

Quick Analysis

- Simple plotting of relative and absolute measurements.
 - Point kinematics (position & velocity).
 - Segment dynamics (length, rotation & derivatives).
- Time reference and XY plots.
- Plots and imagery marked for quick reference.
 - Selectable plot viewing of up to four plots.
- Allows for user-defined, multiple motion planes skewed from camera normal.
- Tabular data window.
- Versatile data smoothing.

Flexible User Controlled Output

- User formatted full-page reports of annotated plots, images, and tabular data.
- Industry standard TIF image file

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Specifications for *ImageExpress MotionTrace*

ImageExpressä Standard Software features which includes:

- Control and Download PCI Series Cameras
- Image Open, Review and Save
- Multiple Image Windows with Zoom Capability
- Print
- Motion Plane Definition
- Automatic Feature Match Point Type
- 2D Autotrack
- Plot

Options include:

- File Format Conversion to AVI
- CD-Write

Software Specifications:

Play rate for standard ImageExpress TIF files	20 fps minimum for 480 x 420 imagery
Maximum number of display windows	4
Maximum image size	480 x 420 RGB

Mimimum Software Requirement

Microsoft Windows 98 or NT™ 4.0 Operating System

Mimimum Recommended System Requirement

- 300 MHz Pentium II
- 64 Mbytes RAM
- 9 Gbyte Hard Disk
- AGP Video
- Mouse
- Keyboard
- Spare PCI slot for camera interface



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