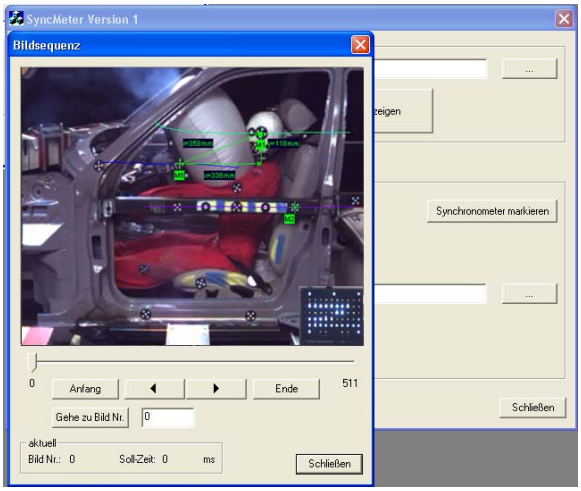
MOTION
Syncmeter

Computer based time calibration for all high speed cameras used in a test



Features of MOTION Syncmeter

- Very accurate synchronization of image sequences of all high speed cameras used in a test (higher precision for 3D- and other analysing methods using several cameras, with views of the same test)
- LED time code of high speed crash clock synchronometer changes every 10 microseconds
- Repeats every 10ms, 1s or 100s depending on mode
- Several slave synchronometers can be synchronized with a master synchronometer
- Image processing functions to measure the time code inside each image view
  - o Image pre-processing
  - o Detection of illumination maxima of LED's
  - o Decoding of start and end time of exposure
  - o Accuracy of measurement depending on exposure time up to 2 micro seconds
  - o Processing time about 0,1 s for a single image
  - o Transfer of measurement time information into motion analysis system

Delivery

- Master crash clock synchronometer
- opt. additional slave crash clock synchronometers
- SIGNUM MOTION SYNCMETER measurement software
  - o standalone program
  - o selection of image sequences and result files
  - o definition of active synchronometer position
  - o output of result time information into a ASCCI file
  - o Use of measured real time information for motion analysis software systems like SIGNUM MotionAnalysis