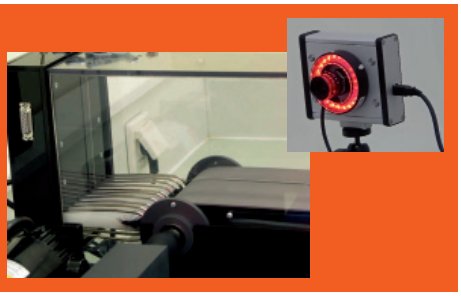
KS21

The gait analyzer

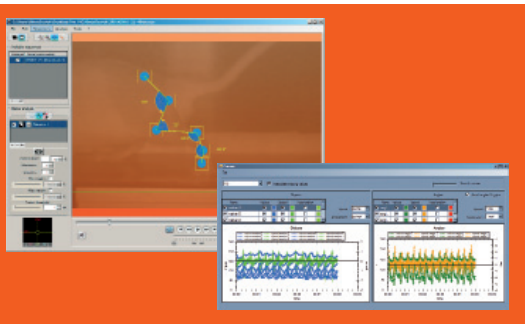
Automated system for kinematic and time-space analysis of rodent locomotion

KS21 An original system



- Fast intelligent video-camera (max. 460 Hz) with integrated near-infrared LED and embedded real time-picture compression
- FPGA component for embedded pre-processing
- Fast USB 2 streaming
- Dell OptiPlex 760 USFF computer
- Acquisition and analysis software EyeMotion2D® for Windows
- Adjustable treadmill for rats and mice: 2 to 100 cm/s
- Reflective markers kit for tracking anatomical landmarks in mice and rats (3mm x 20 and 6mm x 20)

KS21 EyeMotion 2D: ultra-performing user-friendly software

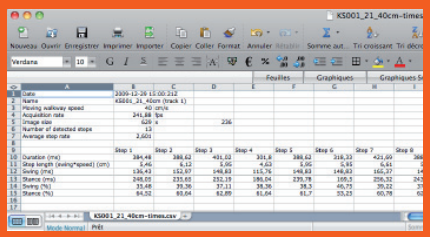


- Video-camera adjustments (frames per second, exposure time)
- Acquisition and storage of image sequences (from few seconds to several minutes)
- Camera trigger capability
- Processing, organizing, correcting and analyzing video sequences
- 2D detection and reconstruction of markers movement
- Computing of gait parameters and exporting in current software formats (xls, pdf, …)

KS21 A wide panel of measured biomechanical parameters of walking

- Time-space parameters: walking cadence, step length, step duration, percentage of stance and swing during the gait cycle
- Kinematic parameters: angular displacements and angular velocities during the gait cycle

KS21 Broad preclinical fields



- Pain syndromes
- Osteoarticular diseases
- Neuromuscular disorders
- Central and peripheral nervous system diseases
- Behavioral pharmacology

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