



KINE Gait

- Fast, easy and portable gait analysis system
- Spatial-temporal gait parameters in less than 5 minutes
- Objective outcome measures that elevate the level of your work
- An automatic report to print, store and exchange with other clinicians
- Built-in and user-defined reference values

Product description

KineGait can generate spatial-temporal parameters of gait in less than 5 minutes. The person needs to neither take clothes off nor wear markers, leading to a short time in preparation for the measurement. The program is easy to use since the built-in step-by-step guide leads the user through the procedure. This objective method results in numbers that describe the current performance. These numbers document the current status of the subject and can be compared to previous measurements and/or a reference database and thus evaluate the effect of an intervention. The automatically generated report can be printed out with comments and reference data or sent e.g. as an attachment via e-mail. Since numbers have more weight than words, KineGait is a practical tool for the clinical movement specialist to objectively document performance and trend of a patient to e.g. the patient, referring doctor, hospital management or insurance company. By charging for gait reports, the product can pay off quickly.

KineGait measures parameters of walking, evaluating a patient's performance before and after an intervention like physiotherapy, prosthetic foot alignment, drugs or surgery. Musculoskeletal and neurological problems often influence gait, even if it is not the main complaint of the patient. Thus, gait analysis can be an evaluation tool in rehabilitation for geriatric patients and patients with Parkinson's, MS, stroke and similar problems. It is a great tool for professionals in orthopaedics, prosthetics and physiotherapy.

KineGait is a 2D, Windows-based gait analysis system for analysing planar walking in the sagittal plane. With a camcorder, PC and the KineGait software, the basic spatial-temporal parameters of the gait can be acquired. Emphasis is placed on simplicity and efficiency.



KineGait is easy to learn and use, allowing quick evaluation of gait. For more portability, only the camcorder is needed in the field, later data can be copied to the PC.

The **KineGait** can record, analyse, compare, print out and store reports of the following parameters:

- Walk speed
- Cadence
- Stride/step lengths for left and right foot
- Stand/swing/double support phases for left and right foot
- Symmetry of left and right
- Reference data
- User comments

The report is stored in standard HTML format so it can be sent to and read by anybody that has an Internet browser. In KineGait, you can record, import and play a video sequence, analyse it frame by frame and follow an easy step-by-step protocol to generate a report. Data is stored and organised in a hierarchical database. Users own reference data can be generated from existing measurements, imported or exported.

Benefits

- Objective tool for gait analysis
- Documents status, trend and effect of an intervention
- Numbers have more weight than words
- Increases quality of work
- Good value for money

Applications

- Rehabilitation
- Physical therapy
- Orthopaedics and prosthetics
- Geriatrics

Features

- Based on camcorder and Windows software
- Records, analyses and objectively reports characteristics of gait
- Real-time and frame-by-frame analysis of gait
- Built-in step-by-step guide
- Automatic printable gait report in a general format (HTML)
- Multilingual
- Built-in database



Specifications

- Number of video inputs: 1
- Type of video inputs: FireWire, PAL or NTSC
- Output parameters: Walk speed (m/s), cadence (steps/min), stride length, step length (metres), stand phase, swing phase, double support phase (seconds), symmetry (%), reference data (%), user comments
- Output files / format: AVI, HTML, statistical parameters, clipboard
- Input files: Statistical parameters, AVI
- Languages: English, Spanish, French, Italian, German, Swedish
- Minimum hardware requirement: PC computer with firewire 1GB on disk, 512MB memory
- Minimum software requirement: Windows 2000, Windows XP or later, Internet Explorer 6.0 or later
- Camcorder with firewire output

Information on reference data

Using data from reference group
White male

Current

Patient ID: 12345
Social security: 1234567890
Measurement point: 1234567890
Date of recording: 2002-02-15
Name of file: 123456789070215162246.htm
Notes:

Walkspeed:	1.15 m/s (78.4% of reference)
Cadence	113.21 st/min (100% of reference)
Stride length	1.22 m (75.7% of reference)
Step length	0.62 m (77.0% of reference)
Stand phase (stph):	0.64 s (60.4% of reference)
Swing phase (swph):	0.42 s (39.6% of reference)
Double support (ds):	0.12 s (11.1% of reference)



KINE
Pioneer in Biomedical Engineering

Kine ehf.
Bæjarhraun 8
220 Hafnarfjörður
Iceland
Tel: +354-580-8300
Fax: +354-580-8309
Email: kine@kine.is