

OPTOGAIT

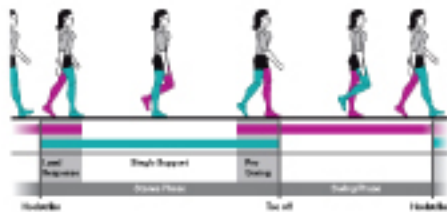
Walk – Run – Jump Analysis Made Easy

OPTOGAIT offers a revolutionary tool for biomechanical analysis of walking, running and jumping. Remarkably portable and cost-effective, **OPTOGAIT** has been strategically designed to offer a scientific, objective analysis of human movement to promote optimal performance.



Developed by **MICROGATE** - the company that developed the precision timing system used at the Olympic Games - **OPTOGAIT** uses state-of-the-art technology to test and analyze a variety of factors related to movement including speed, acceleration, standard deviation, flight time, stride angle, unbalance index, foot contact phases and more.

Compatible with any standard computer, **OPTOGAIT** captures motion within a thousandth of a second, transmitting data to the computer screen instantly.



OPTOGAIT offers the ability to:

Assess performance and physical condition

Identify muscular deficiencies

Measure tolerance to workloads

Print and export comprehensive reports

Develop customized training and rehabilitation programs

Determine the effectiveness of a particular course of treatment

Create a database

Motivate patients or athletes by providing tangible measures of progress

Who Can Use OPTOGAIT ?

OPTOGAIT has proven to be an effective diagnostic and analytical tool for podiatrists, orthopedists, sports medicine practitioners, physical therapists, athletic trainers, strength and conditioning coaches & leading sports teams.

How Does OPTOGAIT Work?

OPTOGAIT analyzes movement along a special track, using two synchronized video cameras to record and quantify data relating to movement. The track can be laid on the floor or placed atop a treadmill. Data can be stored over time, enabling the patient or athlete to see how he or she is improving.

TEST: The patient moves along the track, allowing the motion to be captured by the system.

ANALYSIS: The motion is translated to a computer screen, allowing the physician to detect imbalances and compare data to analyze a patient or athlete's motion, whether walking, running or jumping.

CORRECTION: The system helps identify asymmetrical motion, weakness and imbalance so that proper action can be taken to correct any problems.

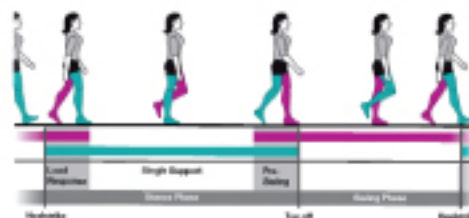
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report

Medical Parameters



Lengths				
Step length [cm]	Left		81.741.3	
	Right		81.841.3	
	Diff		-1.100	
Stride length [cm]			163.442.4	
Gait parameters %				
Stance phase [%]	Left		67.741.8	
	Right		69.541.7	
	Diff		-1.800	
Swing phase [%]	Left		32.258.2	
	Right		30.458.3	
	Diff		1.800	
Single support [%]	Left		36.642.8	
	Right		37.241.5	
	Diff		-0.600	
Total Double support [%]			37.741.5	
Load response [%]	Left		18.641.3	
	Right		18.141.8	
	Diff		-0.500	
Pre-swing [%]	Left		19.141.9	
	Right		18.741.3	
	Diff		0.400	
Time parameters				
Step time [sec]	Left		0.640.0	
	Right		0.640.0	
	Diff		0.000	
Gait Cycle [sec]			1.279.000	
Cadence [steps/min]			0.0149.000	

MICROGATE
TIMING AND SPORT

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Benefits of OPTOGAIT

OPTOGAIT is... *Cost-effective*
Easy to use
Quick
Portable
Non-Invasive
Compatible with any PC or laptop computer
Operated by a rechargeable battery

Find out how **OPTOGAIT** can help maximize your ability to analyze movement and measure improvement. To learn more about **OPTOGAIT**, please call **912.525.3500** or email info@alta-innovations.com.

Alta Innovations
836 E. 65th Street, Suite 26, Savannah, GA 31405 Tel: 912.525.3500
Web: www.alta-innovations.com Email: info@alta-innovations.com

