



Kinematics



Kinetics



s-EMG



BTS Biomedical

BTS G-WALK

General description

BTS G-WALK is the innovative BTS solution for the evaluation of the spatial-temporal gait parameters ideal to evaluate all the pathologies related to gait disorders.

BTS G-WALK is a wireless system of inertial sensors composed of a triaxial accelerometer, a magnetic sensor, and a triaxial gyroscope that, when positioned on L5 vertebrae of the spine, it allows for a functional objective gait analysis to be performed. The system extrapolates the data and calculates all the spatial-temporal gait parameters required to perform an assessment or to define a training strategy. BTS G-WALK is an intuitive and easy-to-use instrument to obtain accurate, objective and quantitative data. The tests are quick to execute and do not require any preparation of the subject. The automatic report generation makes BTS G-WALK the ideal solution for a wide range of applications: assessment, prevention, diagnosis and follow-up of rehabilitative, orthotic or pharmacological interventions.

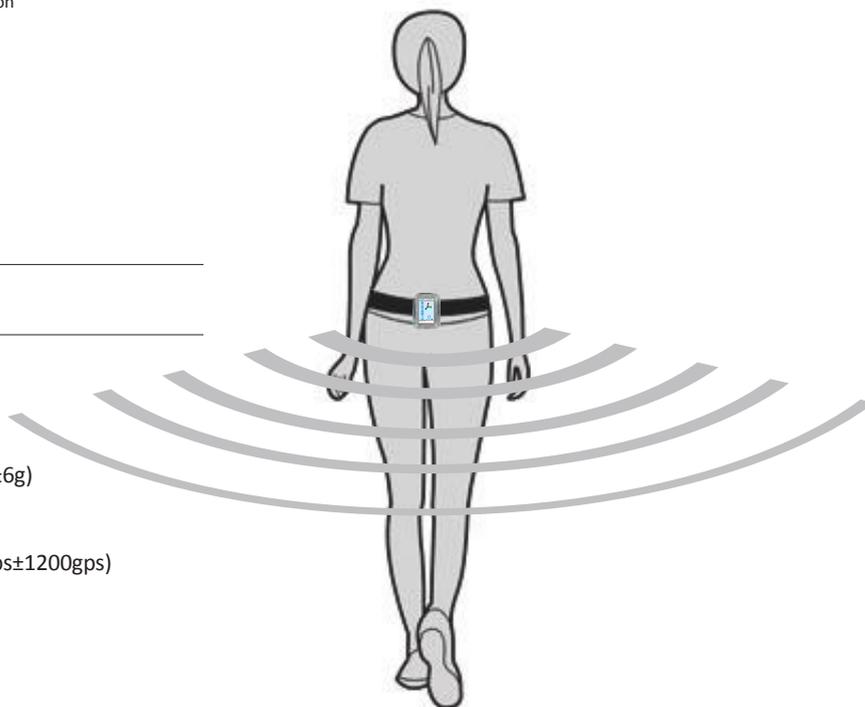


Components and accessories

	Std. Equipment	Add-on
1 wireless inertial sensor	●	
Belt with pocket for the sensor positioning	●	
Transport bag	●	
Workstation		●
BTS G-STUDIO software	●	
G-WALK protocol	●	
Additional analysis protocols		●
Up to 2 webcams for video recording		●

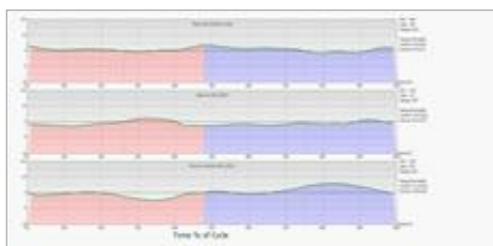
Technical features

Dimensions	78x48x20mm
Weight	62gr
Sensors typologies	Triaxial accelerometer with multiple sensitivity ($\pm 1,5g, \pm 6g$) Triaxial magnetometer Triaxial gyroscope with multiple sensitivity ($\pm 300gps \pm 1200gps$)
Battery	rechargeable via USB 18/24 hours of autonomy
Connectivity	Bluetooth®
Frequency	up to 200Hz
Working	real-time

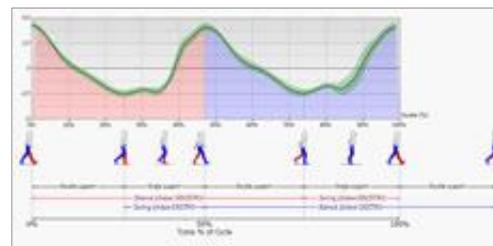


BTS G-STUDIO

Is an easy-to-use but complete software for the analysis of spatial-temporal gait parameters and pelvic kinematics. It includes normative data for all the acquired parameters.



Kinematic analysis



Spatial-temporal parameters analysis

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