



# DIGITSOLE<sup>®</sup> PRO

## Gait & Lower Extremity Movement Analysis.

**Capture. Analyze.  
Document. Implement.**

### BIOMECHANICAL ASSESSMENTS & MOBILITY DATA CAPABILITIES

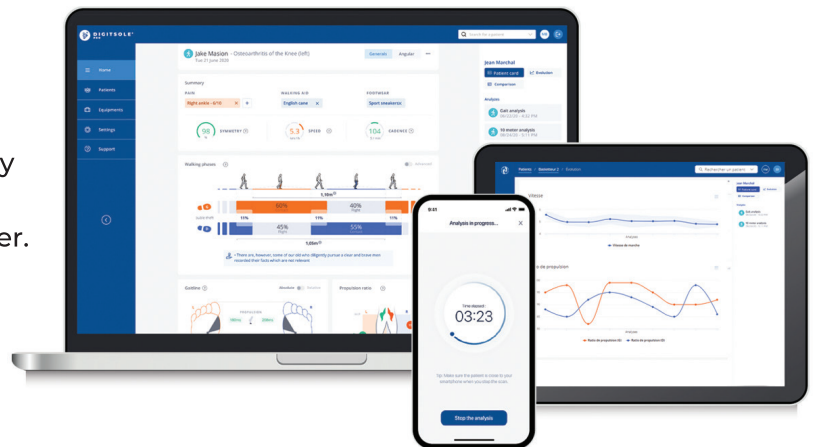


#### TECHNOLOGY

Unique patented technology efficiently measures and captures gait & lower extremity biomechanical movement data with remarkable accuracy, validity and reproducibility. Digitsole<sup>®</sup> offers the opportunity to quickly assess and evaluate both quantitative and qualitative movement data.

#### SOFTWARE

Digitsole<sup>®</sup> software is intuitive and extremely easy to use. Data is organized, easily accessible and presented to empower the healthcare practitioner.



#### HARDWARE

Each Digitsole<sup>®</sup> Pro Assessment Kit is equipped with unique and proprietary data collecting hardware pods. Digitsole captures and records steps, strides and foot orientations while running or walking.

Proprietary algorithms calculate lower extremity, spatiotemporal kinematic and advanced parameters with remarkable precision and accuracy. Digitsole pods utilize the world's smallest combination of a 3-D Accelerometer, Gyroscope, and Inertial Measurement Unit (IMU).





**DIGITSOLE<sup>®</sup>**  
**PRO**



**1. CAPTURE**



**2. ANALYZE**



**3. DOCUMENT**



**4. IMPLEMENT**

The algorithms capture over 32 parameters in real-world conditions. This solution provides an objective interpretation to improve the clinical assessment of patients.

### RECOMMENDED FOR:

- ✓ MUSCULOSKELETAL DISORDERS
- ✓ RETURN-TO-SPORT
- ✓ FALL ASSESSMENT/PREVENTION
- ✓ NEUROLOGICAL DISORDERS



### ANALYSES INCLUDE:



#### WALK MODULE

SPEED  
CADENCE  
STRIDE LENGTH  
CONTACT TIME  
OSCILLATION TIME  
DOUBLE CONTACT  
LOADING TIME  
FLAT FOOT TIME  
PROPULSION TIME

#### GENERAL PARAMETERS



#### RUN MODULE

CADENCE  
RUNNING SPEED  
DOUBLE FLIGHT TIME  
CONTACT TIME  
OSCILLATION TIME  
STRIDE LENGTH

CLEARANCE  
STRIKE ANGLE  
STRIDE HEIGHT  
CIRCUMDUCTION  
STEP PROGRESSION ANGLE  
PRONATION/SUPINATION ANGLES

#### FOOT KINEMATICS

PRONATION ANGLE  
SUPINATION ANGLE  
STRIKE ANGLES

SYMMETRY  
GAITLINE  
PROPULSION RATIO  
VARIABILITY

#### ADVANCED PARAMETERS

STRIKE PATTERN  
ASYMMETRY  
IMPACT FORCE

### OPTIONAL MODULES:

#### Performance Rehab Module:

Adds 30 athletic performance parameters for evaluation to improve performance and help prevent injury.

#### Video Module:

Simultaneously capture video and movement data. Validate movement patterns during tests. Provides cloud based data and report storage.

#### Digitsole<sup>®</sup> Pro Base System

Software License, Walk & Run Modules, Hardware Kit, 2 Users  
NC51551

#### Digitsole<sup>®</sup> Performance Rehab Module

NC51552-02

#### Digitsole<sup>®</sup> Video Module

NC51552-03

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