



# F-SCAN<sup>®</sup> VERSATEK SYSTEM

bipedal in-shoe analysis

*F-Scan*<sup>®</sup> is a measurement system that captures dynamic in-shoe pressure information revealing interaction between foot and footwear. Unlike traditional visual observation of foot function and gait, *F-Scan* quantifies contact pressure distribution and timing. It includes sensors, electronics, and software as well as a protocol for analysis, diagnosis, and confirmation of the effectiveness of interventions. The extremely thin, high resolution *F-Scan* sensor ensures the most accurate data is captured. Other proponents of the system include:

- USB Connection to laptops makes the system easy-to-use and portable.
- Faster scan rates enable better capture of dynamic events & plantar pressure assessment.
- *VersaTek*<sup>®</sup> cuffs feature light weight hardware, indicator lights, and standard CAT5E cables.
- New Edge connection provides more reliable connection to sensor.

For clinicians dissatisfied with the limitations of traditional examinations, *F-Scan* confirms the efficacy of treatment. For researchers investigating or studying foot function, gait, and footwear design/function, *F-Scan* provides biomechanical parameters and understanding of how the foot and gait are functioning.

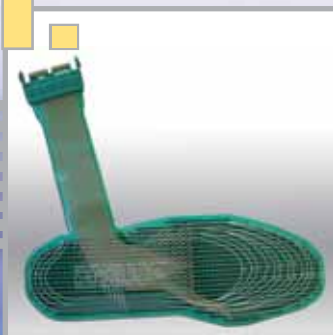
## APPLICATIONS:

- Screen for disorders secondary to diabetes or other neuropathic issues
- Observe gait abnormalities
- Regulate weight bearing after surgery
- Monitor degenerative foot disorders
- Assess high pressures due to ray hypomobility
- Immediate determination of orthotic efficiency
- Pre- and post-surgical evaluations
- Identify areas of potential ulceration
- Segment various regions of the foot

## BENEFITS:

- Manage treatment of foot inside the shoe
- Increase orthotic footwear performance
- Reduce cost by reducing the need for follow-up and orthotic adjustments
- More referrals by increasing patient satisfaction
- Supporting documentation for fee-for-service approach or insurance claims

### 1. Trim



Ultra thin, high resolution sensor - 960 sensels

### 2. Connect



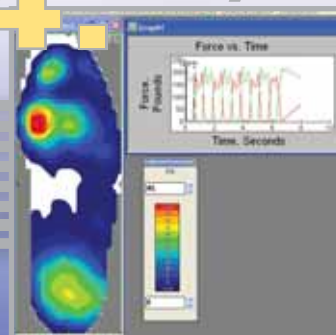
Edge Connect sensor; USB Connection to PC

### 3. Collect



850 Hz Scan Rate

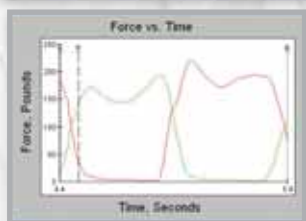
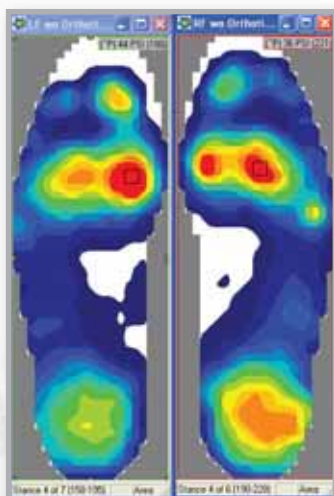
### 4. Analyze



Analyze pressure data for high risk areas

# F-SCAN<sup>®</sup> ANALYSIS

## PRE-ORTHOTIC



## POST-ORTHOTIC

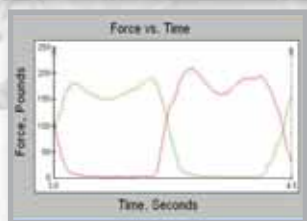
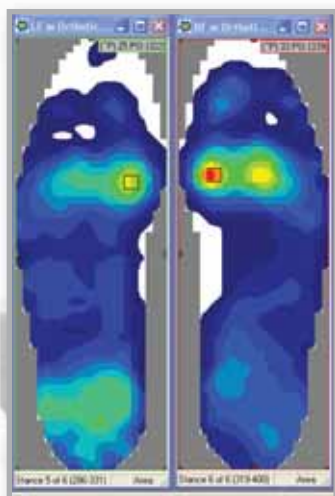


Image above (left) shows patient before treatment with high pressure areas (as indicated in red). Post-treatment evaluation (right) confirms orthotic efficiency and reduction of high pressure areas, resulting in improvement of foot function and gait.

*“The F-Scan system has completely changed my understanding of the foot's function...I am able to make step-by-step changes and modifications to my patients' orthotics, and know immediately whether it has bettered or worsened their condition.”*

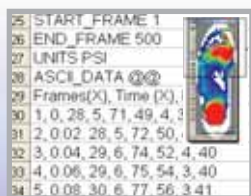
~ Bruce Williams, DPM  
Merrillville, IN

Contact us today for a demonstration!

www.tekscan.com / 800.248.3669

## RELATED PRODUCTS & OPTIONS

### Research Software



additional graphing capability, tools to isolate & segment anatomical regions of the foot, & ASCII output

### TAM<sup>™</sup> (Timing Analysis Module)

Site	Range
Heelux	70-85
Rhead1	70-85
Rhead2	70-85
Rhead3-4	70-85
Rhead5	75-90
Midfoot	
Condyte	50-62

timing data, relative to segmented foot function & phases of the gait cycle, relative to normal function

### CoM'analysis<sup>®</sup> (Center of Mass Analysis)



gait efficiency based on motion of the body's center of mass, including symmetry between left & right sides, purity, & energy efficacy of gait

### Video Synchronization<sup>™</sup>



synchronize & play back both video & pressure data simultaneously to study gait patterns

### F-Socket<sup>™</sup>



assessment of prosthetic pressures

### Floormat



add floor mat(s) for barefoot assessment

### Grip<sup>™</sup>



hand grip & ergonomic studies

### Equilibrators



improve uniformity of sensor response