



pedar[®]

*for mobile pedography
in motion analysis*

Dynamic load distribution mapping for performance optimization

Use pedar[®] for **local load distribution** measurement to optimize performance and comfort for all daily activities.

Ensure **optimal force transmission** by capturing the interaction between foot, footwear and ground in high local resolution.

pedar[®] key benefits for biomechanical engineers:

- measure in-shoe pressure in high resolution using pedar[®]'s elastic and highly flexible insole in any footwear
- analyze static and dynamic pressure, and extend the measurement with pedarpad for dorsal assessments
- gain kinetic information about movement patterns and synchronize pedar[®] with other systems like 3D motion capture system, EMG, etc. for complete motion analysis



Application package



The recommended system includes: 5 pair of insoles (different sizes), pedar analyzer and pedar recorder software.



Get it on
Windows 10

References and publications

Published literature showing the applicability of pedar® for kinetic movement analysis

Regional foot pressure during running, cutting, jumping, and landing

Orendurff, M. S., Rohr, E. S., Segal, A. D., Medley, J. W., Green, J. R., 3rd, & Kadel, N. J. (2008). Regional foot pressure during running, cutting, jumping, and landing. *Am J Sports Med*, 36(3), 566-571.

Effects of footwear on plantar load distributions in American football

Taylor, J. B., Nguyen, A.-D., Griffin, J. R., & Ford, K. R. (2017). Effects of turf and cleat footwear on plantar load distributions in adolescent American football players during resisted pushing. *Sports Biomechanics*, 17(2), 10.

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