Oxford Foot Model
Clinically tested and validated model for detailed foot analysis

Pioneering motion capture since 1984.
The Oxford Foot Model was developed by the Nuffield Orthopaedic Centre (NOC) in Oxford, a world-leading center for clinical and research gait analysis, in collaboration with Oxford University.

The complex movements of the foot segment can have a significant impact on the assessment of gait patterns.

The Oxford Foot Model is a two segment foot model that calculates a number of clinically relevant kinematic variables defining foot movement and biomechanical characteristics.

Clinically Validated
The NOC has used the Oxford Foot Model clinically for several years and has published many clinical papers on the validation of the model during this time. A significant number of peer-reviewed publications support the model's reliability and validity - see below for references.

Based on two main foot segments - hindfoot and forefoot - plus a separate hallux segment, the model outputs adjusted kinematics for the ankle as well as the added inter-segment angles.

Seamless
The Oxford Foot Model has been implemented as a Vicon plug-in to run seamlessly in the one-click processing pipeline within Vicon Nexus, where it appears alongside standard plug-ins such as Plug-in Gait and Plug-in Modeler.

Start using the foot model simply by adding one more processing step to the pipeline, which is automatically executed without complicating your existing workflow.

Compatible Vicon Plug-in Gait
The Oxford Foot Model's market set can be added as an extension to Vicon's standard Plug-in Gait model. This means that you can conduct a detailed foot analysis at the same time as you work through the standard gait data acquisition. There is no need to remove one marker set and attach another and you get results from both models for the same gait cycle. Easier for the patient and easier for you.

Output from the foot model appears as extra data next to the standard Plug-in Gait kinematics, allowing you to choose what additional information you wish to use.

Use it at no extra cost
The Oxford Foot Model is available to all Vicon Nexus users at no extra cost. Try it out now and see how it can quickly add a valuable dimension to your clinical studies.

References


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