

Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

Nexus

RRID:SCR_015001

Type: Tool

Proper Citation

Nexus (RRID:SCR_015001)

Resource Information

URL: <https://www.vicon.com/products/software/nexus>

Proper Citation: Nexus (RRID:SCR_015001)

Description: Data capture software for use with Vicon motion capture system. Its features include MATLAB integration, Python pre-installed, customized workflow, and automated quality assessment.

Synonyms: Nexus 2, Nexus 1.8.5, Nexus 2.5.0, Nexus 2.4.0

Resource Type: data acquisition software, data processing software, software application, software resource

Keywords: biomechanics, motion capture

Availability: Available for download

Resource Name: Nexus

Resource ID: SCR_015001

Alternate URLs: <https://www.vicon.com/downloads/core-software/nexus>

Record Creation Time: 20220129T080323+0000

Record Last Update: 20260905T132753+0000

Ratings and Alerts

No rating or validation information has been found for Nexus.

No alerts have been found for Nexus.

Data and Source Information

Usage and Citation Metrics

We found 397 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Casarotto A, et al. (2026) Superficial Ventral Premotor Pathways to Primary Motor Cortex Shape the Temporal Coordination of Precision Grasping. The European journal of neuroscience, 64(1), e70597.

Park YS, et al. (2026) Verification of Markerless Gait Analysis: Multi-Camera and Single-Camera Approaches in Comparison to Marker-Based Gait Analysis. Medicina (Kaunas, Lithuania), 62(2).

Chiu YL, et al. (2026) Validity and Reliability of an Immersive Virtual Reality System for Multidimensional Assessment of Cervical Sensorimotor Control: Cross-Sectional Study. JMIR rehabilitation and assistive technologies, 13, e88498.

Yu T, et al. (2026) Effects of hamstring conditioning contraction on landing biomechanics and surface EMG: a randomized controlled trial. Frontiers in bioengineering and biotechnology, 14, 1702762.

Hall BL, et al. (2026) Changes in interlimb coordination induced by within-stride changes in treadmill speed. Journal of neurophysiology, 136(1), 48.

Banks CL, et al. (2026) Energy Expenditure During Walking With a Novel Treadmill Controller That Induces Gait Asymmetry. bioRxiv : the preprint server for biology.

Mithani A, et al. (2026) Investigating the association between paraspinal soft tissue stiffness and spinal geometry during controlled forward flexion: A cross-sectional case-controlled investigation. Clinical biomechanics (Bristol, Avon), 138, 106904.

Derksen A, et al. (2026) Load Management After Gluteal Tendon Repair: A Controlled Laboratory Study. Journal of orthopaedic research : official publication of the Orthopaedic Research Society, 44(1), e70107.

Chowdhury A, et al. (2026) The earlier you know, the smoother you act: anticipatory control in solo and dyadic juggling. Experimental brain research, 244(6).

Sanz-More CB, et al. (2026) Development and clinical validation of a stroke-specific Gait Deviation Index. Journal of neuroengineering and rehabilitation, 23(1).

Garulli EL, et al. (2026) Deep neurobehavioral phenotyping uncovers neural fingerprints of locomotor deficits in Parkinson's disease. NPJ Parkinson's disease, 12(1).

Bauer L, et al. (2026) No differences in functional and clinical outcomes after rehabilitation between modified kinematic and mechanical alignment in total knee arthroplasty: A randomized controlled trial. Knee surgery, sports traumatology, arthroscopy : official journal of the ESSKA, 34(2), 596.

Vielemeyer J, et al. (2026) A Full-Body Motion Capture Gait Dataset of Healthy Young Adults Walking Ramps Up and Down. *Scientific data*, 13(1), 18.

Kasai M, et al. (2026) Comparison of Toe Clearance Characteristics Between Simulated Obstacle Crossing Using Visual Height Cues and Actual Obstacle Crossing. *Brain sciences*, 16(2).

Dourado M, et al. (2026) The GaMMA corpus of Danish polyadic conversations with gaze speech and motion data in quiet and noise. *Scientific data*, 13(1).

Ueki S, et al. (2026) Analysis of the kinematic features of pelvic and lower limb motion in patients with hip osteoarthritis and acetabular dysplasia. *Scientific reports*, 16(1).

Ishii Y, et al. (2026) Open and closed wedge osteotomies reduce the meniscus extrusion during walking with the knee adduction moment. *Journal of experimental orthopaedics*, 13(2), e70795.

Kim HJ, et al. (2026) Effects of core-lower limb coordinated Pilates on gait and balance in women with flexible pes planus: a pilot randomized controlled trial. *International biomechanics*, 13(1), 1.

Liu L, et al. (2026) Effects of compression legwear on knee biomechanics and inter-joint coordination during depth jumps: a randomized cross-over study. *Scientific reports*, 16(1).

Bazyk A, et al. (2026) Utilizing an Augmented Reality Headset to Accurately Quantify Lower Extremity Function in Parkinson's Disease. *Sensors (Basel, Switzerland)*, 26(4).