

NICON

Nexus 2

Biomechanics, Sports Science and
Clinical Motion Capture

$$\theta = \theta \hat{n}$$

$$L = r \times mv$$

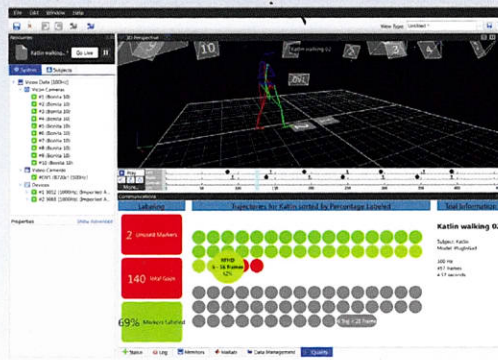
$$r = rF$$

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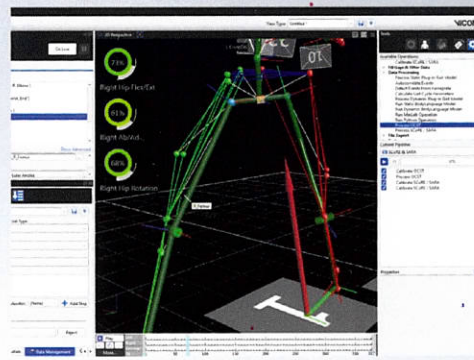


Nexus 2

Track. Analyze. Discover.



Automatic Quality Assessment: Panel



Real-time subject calibration feedback

Welcome to Nexus 2, Vicon's data capture software developed for our Life Science customers. With a host of new automated features, intelligent processing, flexible controls and Vicon IMU integration, Nexus 2 sets a new standard for motion capture.

Under the hood

The Nexus 2 data processing engine has been completely re-engineered to give you significant speed and accuracy improvements when processing your data.

Labeling in Nexus 2 is intelligent. Not only is it faster and more accurate, but real-time labeling is also significantly improved. The new data processing engine also allows real-time subject calibration feedback and automatically initializes labeling of your subject – no need to label manually.

Nexus provides you with camera calibration feedback to help you to achieve consistent calibrations in the laboratory, enabling you to maintain your standards.

Powerful modeling

As the only optical motion capture provider on the MATHWORKS partners program, Vicon has developed native integration with MATLAB in Nexus 2. Run your MATLAB scripts from Nexus with one click. Build your MATLAB processing scripts and see your results immediately with the Nexus-MATLAB dynamic connection. Run scripts from within the Nexus MATLAB pane or save these directly to your Nexus pipeline.

Not a MATLAB user? Nexus also comes with Python pre-installed. Access all your trial data with the Vicon SDK.

ProCalc users can now run scripts directly from the Nexus pipeline, giving you access to batch processing and saving you time.

Automatic quality assessment

Save time with Nexus 2's Automatic Quality Assessment. By automatically detecting gaps and labeling quality in your data, Nexus 2 presents an informative, visual overview of your trial. Improve your results with the expanded set of data fill options including the new Rigid Body and Kinematic Fills with Intelligent Automatic Donor Selection.

Customize your workflow

Creating simple, universal lab protocols has never been easier. Replacing the previous 'Protocols' concept, the Biomechanics Workflow builder creates a series of steps to combine data collection and offline processing. It also makes it simple to get started with the new SCoRE and SARA Functional Calibration, providing real-time visual feedback in the Nexus 2 workspace to assist with subject calibration.

Manage your data

ProEclipse is the new data management system for Vicon Life Science software users. With improved database navigation and intelligent search functionality, ProEclipse will enable you find your data with ease.

Quick Reports

The Quick Reports feature within Nexus 2 has been improved, to help you spend less time formatting and more time analyzing the captured data. You can now select individual components of data and drag a drop graph layouts, which can be saved as templates for future use.

Seamless video

Nexus offers support for the Vue Video camera which was developed from the ground up for Vicon Life Science customers. Vue Video achieves full frame synchronization up to 120Hz or 1920 x 1080 HD from a single point of connection for both power and data. Spend less time setting up your system and more time on research thanks to the all-new one step dynamic video and optical calibration.

Integration with Vicon IMU

Add inertial sensors into the optical world. Up to four Vicon IMUs can be added into your environment as digital devices, with capture rates up to 500 Hz.

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