



## ***Baseball pitching analysis for Qualisys Track Manager***

Pitching is a complex three-dimensional movement. Combine our motion capture technology with a unique baseball analysis package to assess pitching in three dimensions and without simplifications.

The Baseball Module takes advantage of the Project Automation Framework (PAF), an add-on to the QTM software that helps you manage and capture your data. The PAF guides you through the data collection process and connects QTM directly with the analysis software Visual3D to immediately produce a report analyzing the player's form in 3D.

The analysis is executed automatically, providing the end user with a full report including measurements of angles and rotations performed during the capture– full documentation is included.

### FEATURES

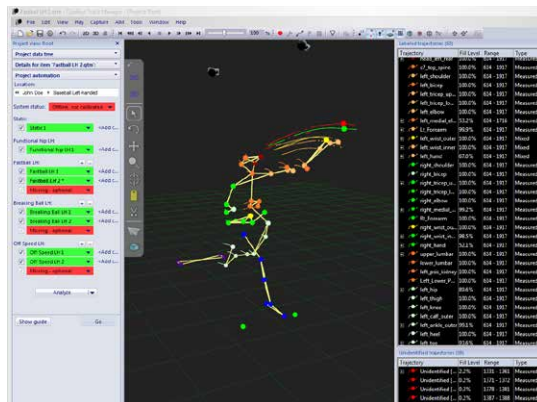
- All relevant biomechanical variables
- Full body marker set for accurate tracking of 15 body segments
- Easy data management
- AIM Model adapted for pitching
- Suitable for left-handed and right-handed pitchers

## CONCEPT

The processing pipeline focuses on the pitching movement and has been developed in cooperation with leading baseball experts. Outputs include indicators of performance as well as injury risk.

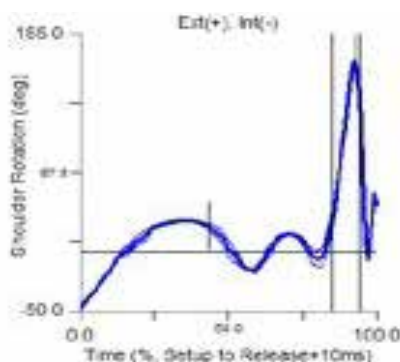
## PROCESS

During data collection, you can focus on your client instead of technical details. PAF offers a list of pre-defined measurements when creating a session in a guided panel within the QTM software, making data collection quick and easy. With the click of a button, events are identified, biomechanical calculations performed, and a report is populated with the results.



## REPORT

Using the full body marker set, the package automatically generates a report that includes variables such as stride length, shoulder rotation on various planes, angular velocities of the shoulder, and others, including a kinematic sequence. The report also includes snapshots of the 3D model at all key events.



## MODULE OPTIONS AND REQUIREMENTS

Module	Marker set	Cameras (min)	Room size (min)	Processing engine	Report
Standard	Full body	8	4 x 6 m	V3D	Visual3D (injury focus)
Performance	Full body	8	4 x 6 m	V3D	Visual3D (Performance focus)

### Precise 3D tracking

Track the movements of the pitcher in all three dimensions with sub-millimeter precision.

### Accurate model

Use inverse kinematics (IK) to minimize skin movement artifact when tracking shoulder rotations.

### Comprehensive report

Print a performance or rehabilitation-based report with all relevant measurement results and space for your logo.

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