QUALISYS

QUALISYS ANALYSIS MODULES

From Capture to Report



An analysis module is an automated framework that runs a specific protocol within QTM, from participant setup through data collection to report. Most modules support marker-based and markerless capture. Reports can include motion, EMG and force plate data.

01

ADD THE PERSON

Enter a person or patient once in the project data tree, with ID, name, date of birth and injury history.

02

ADD A SESSION

Add a session for each visit and choose the test. Participant details carry over into the session and report.

03

RECORD THE TRIALS

Sessions include static and dynamic trials. Red and green trial indicators make it easy to follow progress.

04

PROCESS DATA

One click runs the analysis in Calqulus or Visual3D. Markerless data first tracks in a markerless engine.

05

REVIEW THE REPORT

The result is a Visual3D report or sharable interacive web report that shows charts, video and a 3D viewer.

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Processing and Reporting

CALQULUS

Calqulus is our online processing engine, requiring no extra software. Reprocess data from anywhere with internet connection. The Calqulus module is free and comes with the applications below. Pipelines are open source on GitHub.

VISUAL3D

Visual3D processing software from HAS-Motion, is installed and licensed separately. It performs biomechanical calculations and event detection from your collected static and dynamic trials, which output to select web report.

MARKERLESS

Capture using Miqus Video or Hybrid cameras. Prisma Pose or Theia3D tracks the skeleton from video, and Visual3D or Calqulus completes the analysis. Prisma Pose runs inside QTM, and Theia3D is software from Theia Markerless.

	MARKER-BASED	MARKERLESS	
APPLICATION	PROCESSING ENGINE	PRISMA POSE	THEIA3D
Baseball Pitching	CALQULUS OR Visual3D	×	CALQULUS OR Visual3D
Softball Pitching	Visual3D	×	Visual3D
Baseball Hitting[1]	CALQULUS OR Visual3D	×	Visual3D
Cricket Bowling	CALQULUS	×	CALQULUS
Cricket Batting	CALQULUS	×	×
Cycling	CALQULUS OR Visual3D	CALQULUS OR Visual3D	CALQULUS OR Visual3D
Functional Assessment	CALQULUS OR Visual3D	CALQULUS OR Visual3D	CALQULUS OR Visual3D
Gait & Clinical Gait[2]	Visual3D	Visual3D	Visual3D
Golf[3]	Visual3D	×	Visual3D
Running	CALQULUS OR Visual3D	CALQULUS OR Visual3D	CALQULUS OR Visual3D

[1] With Theia3D, bat tracking can be either marker-based or markerless
[2] Markerless gait analysis is not intended for clinical interpretation and should be used for research purposes only
[3] With Theia3D, club tracking is marker-based only

Module Documentation

Technical details, marker guides and camera placement for each module are available at docs.qualisys.com

Learn more at qualisys.com

Scan or click the QR code see our web reports.

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