

Natural Point (OptiTrack) Overview

[NaturalPoint](#) is the developer of OptiTrack cameras. These cameras use Motive software to capture motion data, save it as C3D files, and can stream real-time data to Visual3D. The camera capture software included with [AMASS](#) also uses the NaturalPoint SDK to collect data, and AMASS generates C3D files as output.

If using OptiTrack's camera system for recorded motion capture tracking data and other data (force plate/EMG/IMU) in Visual3D. See [here](#) for a pipeline command to accommodate for systematic synchronization offset frames between both sets of data. There is also more information on how to output motion capture data from OptiTrack's Motive to Visual3D: [OptiTrack for Visual3D Users](#).

Marker Sets

Visual3D's marker-set-independency allows users to model and analyze many different marker sets. Many Optitrack customers tend to use Biomech (57) full body marker set and Rizzoli marker sets. Below are tutorial examples of how to build model segments when using these marker sets.

1. [OptiTrack Biomech 57 Marker Set](#)
2. [IOR Gait Full Body Model](#)
3. [2007 IOR Foot Model](#) and [2006 IOR Foot Model](#) and [IOR Foot Model 2007](#)
4. [IOR Gait Joint Angles](#)
5. [IOR Gait Planar Angles](#)
6. [IOR Gait Shoulder Orientation and Translation](#)

Plugins

Has-Motion offers multiple plugins for real-time data streaming into Visual3D. When using a real-time streaming plugin with OptiTrack camera systems, the specific camera model does not impact data streaming into Visual3D. The only parameter to verify is the camera's sampling rate, as OptiTrack delivers data in a consistent format across all camera versions.

If timestamps are required for OptiTrack data while using a real-time streaming plugin, an [esync2](#) device will be necessary.

1. [RT Plugin NP OptiTrack](#)
2. [RT Plugin Motive](#)

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Last update: 2025/09/18 14:56

