

YouTube Tutorials

The YouTube Tutorial videos for Visual3D will help you navigate the software step-by-step with the latest version of the application.

Updated Visual3D Tutorials [HAS-Motion Youtube Channel]

These videos were made to provide an updated look at some of the most important Visual3D tutorials. This [playlist](#) contains the following videos and takes you through a typical processing session in Visual3D.

Tutorial	Description	Wiki Tutorial
Visual3D Tutorial Video 1 - Building a 6 DOF Model: Link to Youtube Video	Learn how to construct and apply a 6 DOF model to your motion capture dataset, enabling advanced analysis of biomechanical movement. The tutorial walks you through building a 6DOF lower body model by defining the pelvis, thighs, shanks and feet segments.	Building a 6 DOF Model
Visual3D Tutorial Video 2 - Visualizing Data: Link to Youtube Video	Explore the tools and features available to visualize your data through animations and graphs.	Visualizing Data
Visual3D Tutorial Video 3 - Command Pipeline: Link to Youtube Video	Learn how to automate repetitive tasks, streamline workflows, and execute complex processes efficiently using Visual3D's powerful pipeline commands. This tutorial covers the basics of setting up and customizing pipelines, offering step-by-step guidance to help you optimize your biomechanics analysis workflow.	Command Pipeline
Visual3D Tutorial Video 4 - Signal Processing: Link to Youtube Video	Discover how to apply advanced signal processing techniques to your biomechanics data, including filtering, smoothing, and analyzing time-series signals.	Signal Processing
Visual3D Tutorial Video 5 - Force Platforms: Link to Youtube Video	Covers the steps for setting up force platform parameters, calculating kinematic and kinetic variables, and integrating force data into your biomechanics analysis. Provides clear instructions for users to effectively utilize force platform data within Visual3D.	Force Platforms
Visual3D Tutorial Video 6 - Event Processing: Link to Youtube Video	Covers the steps to identify, edit, and manage events in your biomechanics data, enabling precise segmentation and analysis of key movement phases.	Event Processing
Visual3D Tutorial Video 7 - Model Based Computation: Link to Youtube Video	Demonstrates how to compute model based data like joint angles, velocities, and moments in Visual3D.	Model Based Computations
Visual3D Tutorial Video 8 - Creating a Report: Link to Youtube Video	Shows how the report building tools in Visual3D can be used to create and save a report containing the results from earlier tutorials.	Creating a Report

Building Models in Visual3D

This [playlist](#) shows different different model definitions and how to build them in Visual3D.

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Visual3D Tutorial Video 1 - Building a 6 DOF Model: Link to Youtube Video	Learn how to construct and apply a 6 DOF model to your motion capture dataset, enabling advanced analysis of biomechanical movement. The tutorial walks you through building a 6DOF lower body model by defining the pelvis, thighs, shanks and feet segments.	Building a 6 DOF Model
Visual3D Tutorial - Plug-In Gait Upper Body Model: Link to Youtube Video	Demonstrates how to implement Vicon's Plug-In Gait model definition for the upper body in Visual3D.	Plug-In Gait Full Body
Visual3D Tutorial - Plug-In Gait Lower Body Model: Link to Youtube Video	Demonstrates how to implement Vicon's Plug-In Gait model definition for the lower body in Visual3D.	Plug-In Gait Lower Limb
Visual3D Tutorial - Plug-In Gait Lower Body Modified: Link to Youtube Video	Demonstrates how to implement Vicon's Plug-In Gait model definition for the lower body in Visual3D with modifications made to account for marker placement.	Plug-In Gait Lower Limb Modified

Getting Started with Sift

This [playlist](#) provides you with an overview of how Sift lets you analyse your motion capture data sets from start to finish.

Tutorial	Description	Wiki Tutorial
Sift Tutorial 1 - Load and View Data: Link to Youtube Video	Shows how to load CMZs into Sift and visualize different signals.	Load and View Data
Sift Tutorial 2 - Cleaning Data: Link to Youtube Video	This tutorial will show you how to use Sift as a data cleaning, or quality assurance, tool.	Clean Your Data
Sift Tutorial 3 - Perform Principal Component Analysis Link to Youtube Video	Introduction to performing principal component analysis in Sift and interpreting results.	Perform Principal Component Analysis
Sift Tutorial 4 - Export Results: Link to Youtube Video	This tutorial will show you how to export the results of your analysis. This allows users to report specific signals, metrics, or events from a data set and to share results from analysis conducted within Sift.	Export Results

Working with Open Data Sets

Previous Visual3D Tutorials [C-Motion Youtube Channel]

Introduction to Visual3D

Tutorial Video	Wiki Tutorial
Visual3D Video Tutorial- Typical Processing Session: Link to YouTube video	Typical Processing Session
Visual3D Video Tutorial- Workspace Overview: Link to YouTube video	Workspace Overview
Visual3D Video Tutorial- Visualizing Data: Link to YouTube video	Visualizing Data

Model Building

The Model Building playlist can be found [here](#).

Tutorial Video	Wiki Tutorial
Visual3D Video Tutorial- 6 DoF Model Building: Link to YouTube video Note: This tutorial describes one of many methods to create a lower body 6 DOF model.	Building a 6 DoF Model
Visual3D Video Tutorial- 6 DoF Model Building - Coordinate System: Link to YouTube video	Coordinate System This page does not have a corresponding Wiki Tutorial, but more information can be found at the linked page.
Visual3D Video Tutorial- 6 DoF Model Building - Segment Definition: Link to YouTube video	Segment Coordinate System This page does not have a corresponding Wiki Tutorial, but more information can be found at the linked page.
Virtual Lab Youtube Playlist	These videos follow the Virtual Lab Wiki Tutorial
Functional Joint Youtube Playlist	
Visual3D Video Tutorial: Function Joints - Hip: Link to YouTube video	Functional Hip Tutorial
Visual3D Video Tutorial: Function Joints - Knee: Link to YouTube video	Functional Knee Tutorial

Report Building

The Report Building YouTube playlist can be found [here](#).

Tutorial Video	Wiki Tutorial
Visual3D Video Tutorial: Report Building - 2D Graph: Link to YouTube video	Creating a Report
Visual3D Video Tutorial: Report Building - Normal Data: Link to YouTube video	Plotting Normal Data
Visual3D Video Tutorial: Report Building - Add an Image to Report (Manual): Link to YouTube video	Add Image to Report (Manual)
Visual3D Video Tutorial: Report Building - Add an Image (Pipeline): Link to YouTube video	Add Image to Report (Pipeline)

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