codamotion Real-Time Excellence

ODIN

The new industry standard in biomechanics

ODIN is a software platform to perform the complete measurement process, from sensors through modelling, analysis, and output. It is open, fully customisable, and supports the latest sensor technologies.

The complete measurement process

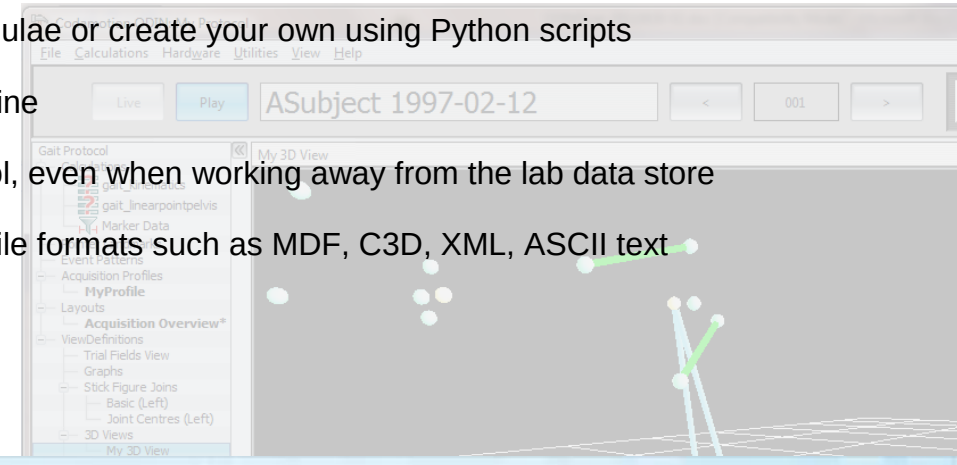
- Fully customisable analysis protocols that work in real-time and offline
- Share motion data and protocols with colleagues using ‘motion bundles’
- Manage large collections of data and protocols in a Data Store

Latest sensor technologies

- Full support and diagnostics for Codamotion active marker systems
- Works with cluster and pointer technologies
- Integration with third-party sensors including force and EMG systems

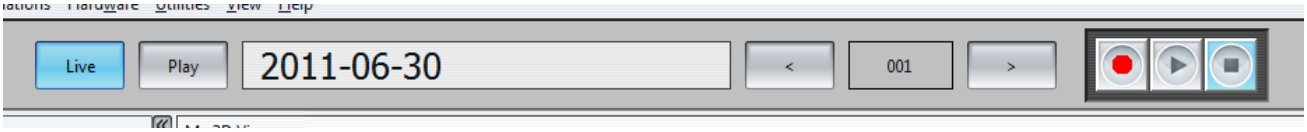
Open and fully customisable

- User-friendly dialogs to configure calculations and display
- Multiple screen layouts and acquisition profiles stored with each protocol
- See pre-defined calculation formulae or create your own using Python scripts
- Scripts work in real-time and offline
- Full audit trail and version control, even when working away from the lab data store
- Import and export using legacy file formats such as MDF, C3D, XML, ASCII text

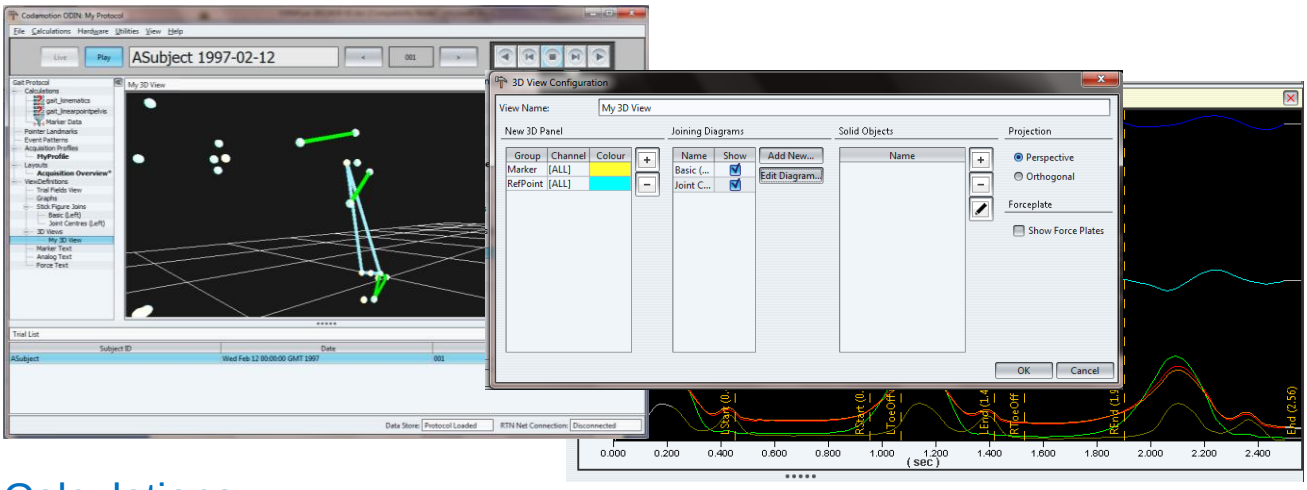


ODIN Screenshots

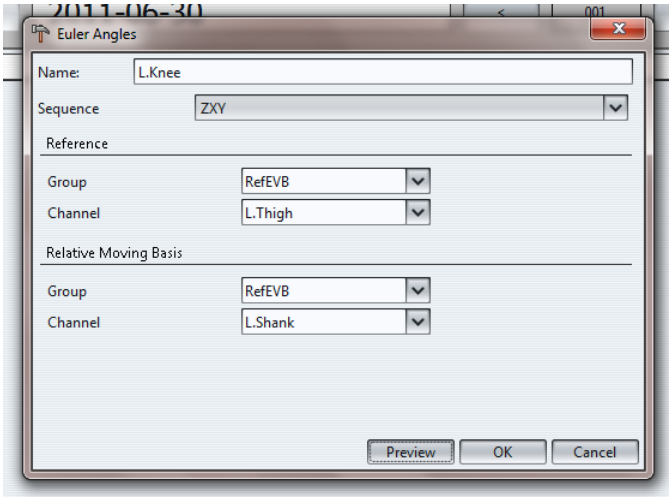
Seamless switching from live to real-time



Views and Graphs



Calculations



A dialog for configuring an Euler angle and the corresponding automatically-generated Python script.

```
from codamotion import eulerangles

def compute(ref, rel):

  # ODIN parameters
  sequence = "ZXY"

  # do operation
  angle = eulerangles(sequence, ref, rel)

  # return declared outputs
  return {"angle": angle}
```

Pointer Support

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