The Qualisys Clinical System is our solution for clinical gait labs, where efficiency, ease of use and reliability are critical.

The core of the system is the Clinical Gait module for the Project Automation Framework (PAF), which provides data management, data collection and reporting, all in one interface from within Qualisys Track Manager (QTM) software.

Clinical gait analysis requires stringent protocols and regulatory compliance. This is why the Qualisys Clinical System is a Class 1m Medical Device. The system may also be extended by compatible external hardware such as force plates and EMG systems.

**FEATURES**

- Ease of use – specifically streamlined for clinical gait analysis
- Class 1m medical device, including software and compatible external hardware
- Interactive HTML 5 report, tailored for clinical gait analysis*
- Not limited to single marker set
- Seamless integration with Visual3D
- Scalable solution - from 8 to 16 or more cameras, our staff and distributors can guide you to find the best solution for your lab

*Q4 2016

**INCLUDED MARKER SETS**

- CAST/6DOF (Cappozzo et al. 1995)
- Leardini (Leardini et al. 2007)
- Conventional Gait Model
- Oxford Foot Model (Stebbins et al. 2006)

**RESEARCH OR CLINICAL – WHICH GAIT MODULE SHOULD I CHOOSE?**

If you are **measuring on patients** for the purpose of diagnosis, treatment assessments, or monitoring, the Qualisys Clinical System is the right choice for you (Art. No. 150401). The Qualisys Clinical System (QCS) is a medical device with Class 1m CE marking.

If you are a **research user**, our research modules are more suitable, see qualisys.com/applications/gait-rehab.
During data collection, we want you to be able to focus on the patient instead of the technology or repetitive tasks like file naming. That’s why our Clinical Gait PAF module offers you a list of pre-defined measurement names, using an intuitive system of red and green buttons. Markers may be labelled automatically using pre-defined Automatic Identification Models (AIM) saving valuable time. These models include all marker names and colours, ready for your first data collection.

Data management

Patient data (e.g. height, body mass and birth date) is entered directly in QTM. This data is stored in the motion capture files, so there is no need to keep and maintain external databases.

Data analysis

Simply click the “Analyse” button, and QTM exports the files, runs a script in Visual3D to analyse them and imports the results into the report template. Patient data is transferred directly into reports, avoiding mistakes and speeding up the report generation.

Marker sets

We understand that there is not a single marker set that fits the specific needs and preferences of all gait labs. That’s why the Clinical Gait PAF module includes three different marker sets, all of which have a proven record of being used in well-established gait labs.
Reports

The Qualisys Clinical System includes a Word and an interactive HTML 5 report. The report is based on a template prepared by Baker, McGinley and Thomason for the workshop Impairment focused interpretation at the JEGM meeting, Miami, 2010.

Video overlay is ideal to visualise force vectors and verify marker positions.

Compatible force plates include models from AMTI, Bertec and Kistler. Force plates are ideal to automate the event detection, and reports will show joint moments and power when force plates are present.

Our calibration frame includes height adjustment, spirit levels and alignment aids so that it can be placed accurately on top of a force plate.

Example of a Word report, populated with kinematic & kinetic analysis.

Hardware

The system may be extended by compatible external hardware such as force plates and EMG systems, acting together like a single system that you can safely use in a clinical environment.

The Qualisys Clinical System can be extended with Noraxon DTS or Delsys Trigno EMG systems. EMG data is recorded and processed together with the motion capture data, and all results are contained within a single report.
Compatible hardware

The Qualisys Clinical System is compatible with the following hardware:

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<th>Component</th>
<th>Type</th>
<th>Item</th>
<th>Article number</th>
<th>Interface</th>
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<tbody>
<tr>
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<td>5003xx+</td>
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<td>EMG</td>
<td>Noraxon</td>
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<td>Trigger port on receiver</td>
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<td>Delsys</td>
<td>Trigno</td>
<td>230081 (8ch)</td>
<td>Delsys trigger module</td>
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Recommended accessories

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<td>Calvester for force plate verification</td>
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References