

# BioWare®

Type 2812A...

## Data Acquisition and Analysis Tool for Biomechanics

BioWare is a very versatile, easy to use Windows® software specially designed to work with Kistler force plates in the various fields of biomechanics:

- Biomechanics research
- Gait analysis (rehabilitation, orthopaedics, prosthetics)
- Sports (jump force, impact, training)
- Neurology (posturography, balance, microvibrations)
- Ergonomics, industry (shoe development, material testing, safety, loading)

Together with Kistler force plates, ground reaction forces and other analog data can easily be acquired, processed and saved.

### Features

- Takes full advantage of force plate performance
- Powerful data acquisition and signal processing
- Various possibilities for data analysis
- BioWare system includes software, A/D board and cabling

### BioWare® Software

BioWare contains all data acquisition, signal conditioning and analysis of force plate data. The following parameters and features are available:

- Forces, moments, center of pressure (COP), coefficient of friction (COF) in different representations
- Flexible view configuration including different coordinate systems
- Force plate and auxiliary signal data acquisition
- Data export and import in various formats, data time slice and merge
- Real-time functions (forces, 3D vector, COP)
- Comprehensive statistics, cursor functions, normalizations
- Full amplifier remote control, input and output triggers (TTL), pre- and post-trigger
- Impulse, work, force gradient
- Extensive digital signal processing: digital filters, frequency analysis (FFT), re-sampling, software sampling-and-hold (SSH), COP enhancement algorithm
- Language: english
- Contains BioWare Dataserver Interface Library Type 2873A

Conforms to the CE safety standards (73/23/EG) for electrical equipment and systems and the EMC standards 89/336/EG.

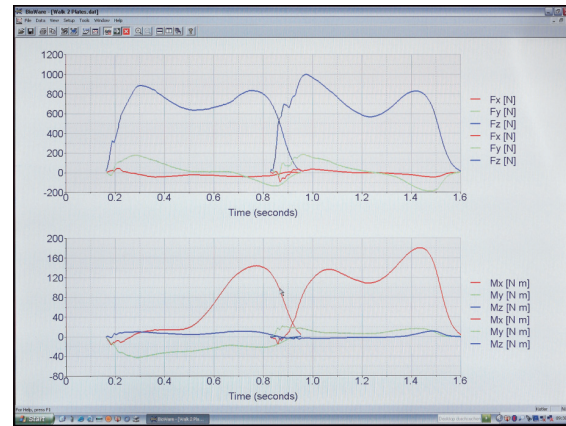


Fig. 1: Gait analysis: Forces and moments

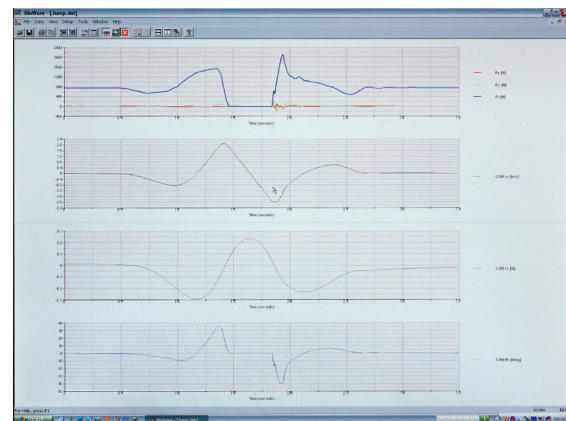


Fig. 2: Example of a vertical jump analyzed with BioWare®

### System Requirements

- Microsoft Windows® 7, Windows® XP or Windows® Vista operating system
- Intel® Pentium 4 class processor (1 GHz or higher recommended)
- Min. 2 GB of RAM
- Video display set to at least 800x600, 256 colors
- Min. 125 MB of free disk space
- Microsoft® compatible mouse
- Windows® Installer version 1.1 or later
- Adobe® Acrobat® Reader®
- 1 free USB 2.0 port

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<b>Ordering Key</b>	<b>Type</b>		
Scope of delivery including accessories			
<b>BioWare®</b>	<b>2812A-05-0</b>	<b>DAQ-System für BioWare®</b>	<b>5691A1</b>
Data acquisition and analysis tool for biomechanics		Data acquisition and analysis tool for biomechanics	
<ul style="list-style-type: none"> <li>• BioWare software on CD-ROM</li> <li>• Instruction manual</li> <li>• BioWare Dataserver Interface Library</li> </ul>		<b>USB 2.0, for max. 2 force plates</b> <ul style="list-style-type: none"> <li>• BioWare software CD-ROM</li> <li>• USB 2.0 DAQ system for BioWare Type 5691A (16 channels, 16 bit)</li> <li>• USB cable , length 1,8 m</li> <li>• Universal AC/DC adapter for 100 ... 240 V</li> <li>• Instruction manual</li> <li>• BioWare Dataserver Interface Library</li> </ul>	
<b>BioWare Dataserver Interface Library</b>	<b>2873A-01</b>	<b>DAQ-System für BioWare®</b>	<b>5695B1</b>
dataserver.dll: free download from Kistler website		Data acquisition and analysis tool for biomechanics	
		<b>USB 2.0 high-speed for max. 8 force plates</b> <ul style="list-style-type: none"> <li>• BioWare software CD-ROM</li> <li>• USB 2.0 DAQ system for BioWare Type 5695B (64 channels, 16 bit)</li> <li>• USB cable , length 1,8 m</li> <li>• Universal AC/DC adapter for 100 ... 240 V</li> <li>• Instruction manual</li> <li>• BioWare Dataserver Interface Library</li> </ul>	