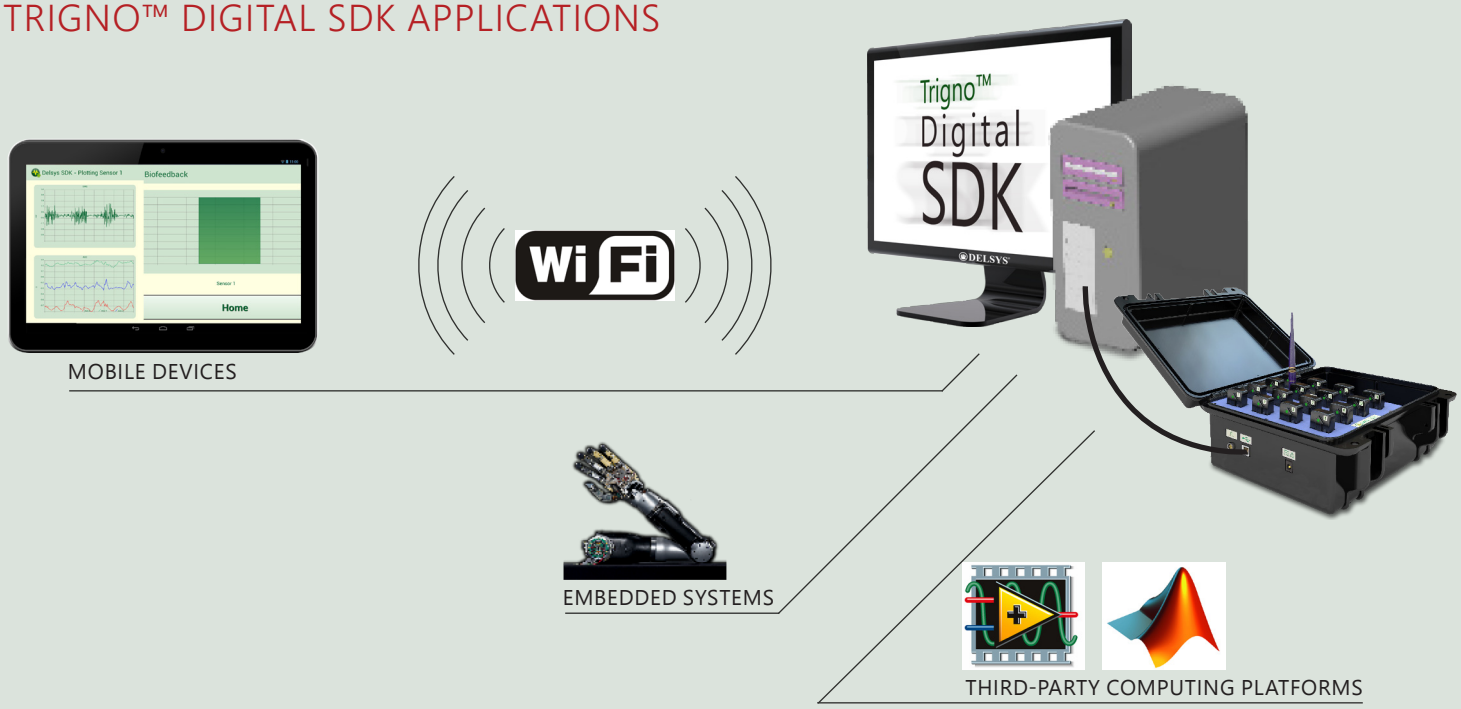
DELSYS®
WEARABLE SENSORS
FOR MOVEMENT SCIENCES

Trigno™ Digital SDK

The Delsys SDK enables Programmers and Developers to create specialized software for visualizing or processing surface EMG and other physiological data transmitted from Trigno™ Sensors. It provides a convenient digital interface for accessing all of the signals monitored by the Trigno™ system, providing continuous high-accuracy samples in real-time, without the overhead and complexity of analog connections.

TRIGNO™ DIGITAL SDK APPLICATIONS



INCLUDED WITH THE SDK

Trigno™ Digital Control Application: A license-free server which delivers digital samples over a TCP/IP connection. The control application also allows sensor pairing, monitoring, and configuration.

Sample Applications: Five sample applications with documented and re-usable source code are provided for MATLAB®, LabView™, Google® Android™ -based mobile devices, Windows (C# or C), and Linux.

Specification: The TCP/IP command, control, and data specification for the digital interface.

Optional Extended Support: Delsys can provide additional application development support for programmers working with the SDK through a yearly contract. All support is provided directly by knowledgeable Delsys staff.

SPECIFICATIONS

Data Output: 16 channels multiplexed EMG samples, 48 channels multiplexed accelerometer samples. Formatted as IEEE 754-1985 single-precision floating point values scaled RTI (big or little endian formatting selectable). Additional data types are available depending on sensor configuration.

Data Connection: Local or remote TCP/IP (over wired or wireless network connection), multiple clients supported.

Triggering: Selectable start and/or stop trigger inputs.

Sample Rate: Fixed, 2000 Hz EMG and 148 Hz accelerometer.

DELSYS Inc. 23 Strathmore Rd., Natick, MA 01760 • T: 508-545-8200 • F: 508-975-4551 • www.delsys.com

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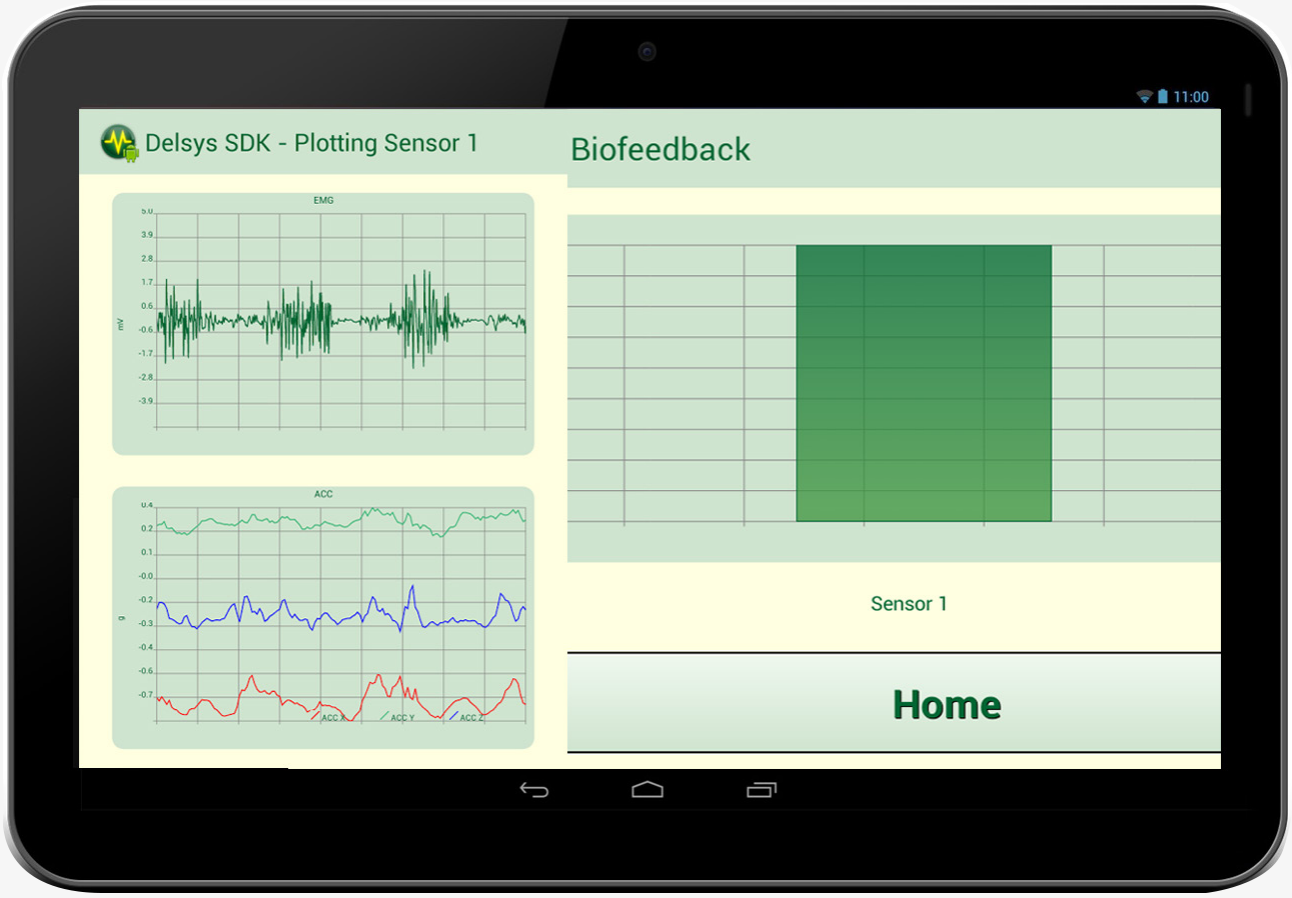

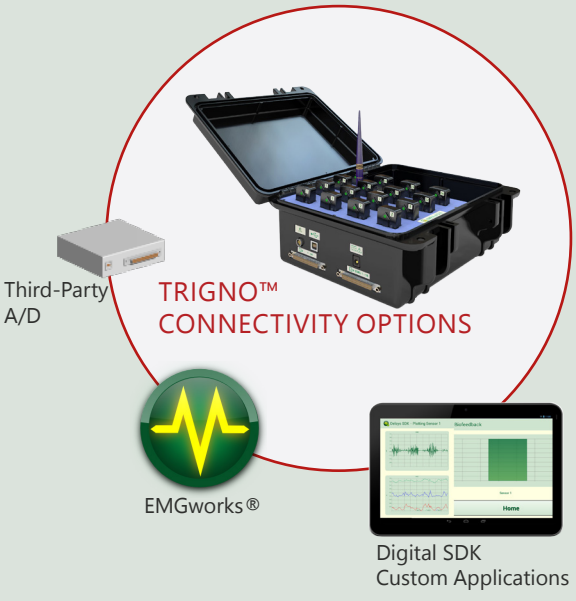

TRIGNO™ SDK SAMPLE - ANDROID APPLICATION:

This application allows the transmitting digital data from the Trigno™ sensors over TCP/IP on the Android device in real time. Its use requires a PC-connected Trigno™ System.

QUICK GLANCE:

- Live EMG and 3D Acceleration activity
- Real time Biofeedback applications
- Sensor placement & Signal Quality Check
- Ease of Interaction with the subject/patient

REQUIREMENTS:

- Android 4.0 and up
- Trigno™ System
- Internet connectivity to allow TCP/IP server

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