The FASTRAK® Digitizer provides unmatched accuracy in an ultra portable and easy to set-up package. FASTRAK® Digitizer is a trusted asset for EEG localization, rapid prototyping and CAD applications.

**HOW IT WORKS**

FASTRAK Digitizer allows for the digitizing of points with our digitizing stylus, using a single electromagnetic source. The source emits an electromagnetic field in which the stylus and optional sensors are tracked in full 6DOF (6 Degrees-Of-Freedom). The included hand/foot switch provides users an alternative option to the built-in button on the stylus. Press the button, capture a point--simple!

**APPLICATIONS**

- EEG LOCALIZATION
- REVERSE ENGINEERING
- RAPID PROTOTYPING
- CAD MODELING

**FEATURES**

- ✔ Real-Time Data
- ✔ Up to 3 Additional Sensors
- ✔ Virtually No Latency
- ✔ No Line-Of-Sight Occlusions
- ✔ Included User Software (PiMgr)
- ✔ Repeatable Data
- ✔ Full Software Developers Kit
- ✔ Simple Set-Up
- ✔ Reliable, Proven Technology
- ✔ Scalable System for Digitizing & Tracking
COMPONENTS
The standard FASTRAK® Digitizer system includes an SEU (System Electronics Unit), 8-inch stylus, 2-inch source (TX2) and the hand/foot switch. For additional motion tracking, you can easily expand the system’s capabilities by adding up to three sensors or by upgrading to a larger source.

SYSTEM ELECTRONICS UNIT
Contains the hardware and software necessary to generate and sense the magnetic fields, compute position and orientation, and interface with the host computer via USB, RS-232 or optional RS-422.

ST8 DIGITIZING STYLUS
A lightweight stylus designed for capturing precise position and orientation data.

SOURCE OPTIONS
The source generates the magnetic field in which the stylus/sensor is tracked.

UPDATE RATE
120 updates/second divided by the number of sensors

INTERFACE
USB; RS-232 with selectable baud rates up to 115.2 K (optional RS-422)

LATENCY
4 milliseconds

STATIC ACCURACY (IN A MAGNETICALLY CLEAN ENVIRONMENT)
0.03 inches RMS for the X, Y, or Z position; 0.15° RMS for sensor orientation. The system will provide the specified performance when the sensors are within 30 inches of the source. Operation over a range of up to 10 feet is possible with slightly reduced performance.*

OPERATING TEMPERATURE
10°C to 40°C at a relative humidity of 10% to 95%, noncondensing

POWER REQUIREMENTS
15 W, 100-240 VAC, 47-63Hz

SOFTWARE TOOLS
GUI included
USB drivers for Microsoft Windows®
Linux® - contact Polhemus

REGULATORY
FCC Part 15, class A
EN61326-1: 2013 Emission
EN61326-1: 2013 Immunity, Basic Environment

GET IN TOUCH
Our technology powers applications in a wide variety of markets, catering to healthcare, military, and in countless research areas. Talk with our Motion Tracking Experts™ today.

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*Large metallic objects, such as desks or cabinets, located near the source or sensor, may adversely affect the performance of the system.

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