SmartBox Pro®

Data Acquisition and Experiment Management

RECORDING HEADSTAGES
A   B   C   D   RE   CE   E
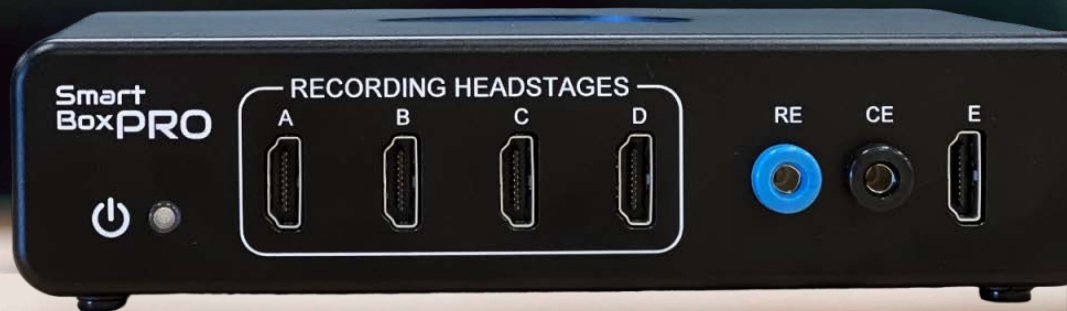
Smart Box PRO

Advanced Electrophysiology: Re-imagined

The SmartBox Pro is a high-performance, multi-functional instrument used for signal acquisition, experiment control, and probe diagnostics. An all encompassing tool that allows you to bring the science back to Neuroscience.
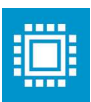
POWERFUL

Record up to 1024 channels at 30k samples/sec. Supports multiple probes and multi-modal signals.

CONFIDENCE

Intuitive user experience builds confidence in the reliability of data collection and visualization.

HIGH-PERFORMANCE ALLEGO SOFTWARE

Modern, interactive design with an intuitive probe-centric user interface, high-quality graphics, and customizable workspace.

PORTABLE

The small hardware footprint and laptop compatibility makes the system highly portable, including for use in intraoperative environments.

PROFESSIONAL TOOLS

Curate and visualize your data using customized leading edge graphical tool sets and algorithms.

STEREOTACTIC REGISTRATION OF SIGNALS

Unique ability to register signals to precise positions on probes online, during data collection, and stored alongside primary data.
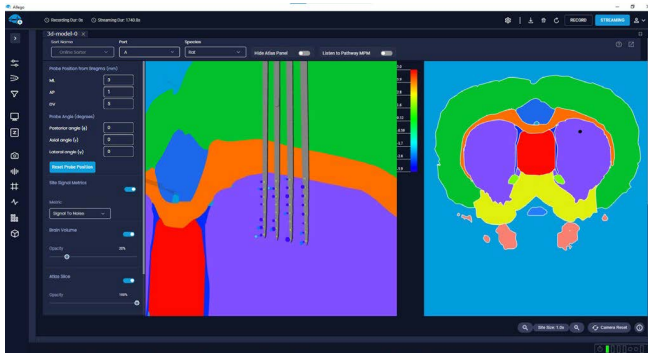
Allego Software

Intuitive "Probe-centric" User Interface

The Smartbox Pro's innovative probe-centric interface provides instant and precise spatio-temporal relationships among signals - an important feature as probes become more complex.

Up: Allego dashboard where each icon represents a unique function.
Right: Real-time signal-to-noise ratio map.

Product Specifications

Acquisition Channel Count	Up to 1024
A/D Resolution	16-bit
Sampling Rates	1—30 kS/s per channel
Peripheral Output	2 Analog, BNC (± 3.3 V)
	2 Digital, BNC (±5 V TTL)
Peripheral Input	2 Analog, BNC (±5 V)
	2 Digital, BNC (5 V TTL)
Audio Monitoring	1 stereo line out (3.5 mm), user selectable
Cutoff Frequency	Adjustable: Low: 0.1 – 500 Hz High: 100 Hz- 20 kHz
Low Input-referred Noise	2.4 µV RMS typical