

BrainMaster Neurofeedback Software Comparison Chart

	BrainMaster 3.0 Atlantis	BrainMaster 1.0 Discovery	BrainMaster 4.0 BrainAvatar Atlantis/Discovery	Other
Support for 2 & 4 channel devices	X		X	
support for 24-channel device		X	X	
Raw Surface Power Training	X	X	X	
Raw Surface Connectivity Training	X	X	X	
Alpha (Kamiya) Training	X	X	X	
Beta (Serman) Training	X	X	X	
SMR (Lubar) Training	X	X	X	
Alpha/Theta (Penniston/Kulkowski/Scott) Training w/overlapping sounds	X	X	X	
Synchrony (Fehmi/Crane) training	X	X	X	
Coherence (Horvat/Walker/Coben) training	X	X	X	
Spectral Correlation (Thornton) training	X	X	X	
Comodulation (Serman/Kaiser) training	X	X	X	
Sum- and difference-channel (Fehmi) training	X	X	X	
Bipolar (Ayers/Hammond) training	X	X	X	
Inhibit "Squash" (Maust) training	X	X	X	
Asymmetry (Rosenfeld/Baehr) training	X	X	X	
Multiple Inhibit (Othmer) Training	X	X	X	
Slow-Cortical Potentials (SCP) (Birbaumer) training	X	X	X	
ILF/ISF (Othmer/Smith) Training	X	X	X	
Peak-Frequency (Russell/Ochs/Carter) training	X	X	X	
Ipsative Assessment (Bonnstetter) capability / neuromarketing	X	X	X	
Variability / Dynamic Threshold (Brown) training	X	X	X	
User-definable power training (enhance/inhibit) (Walker, many others)	X	X	X	
User-definable connectivity training (increase/decrease) (Walker, many others)	X	X	X	
Multiple Threshold, Adjustable Band (Brownback) training	X	X	X	
User-definable frequency bands	8	8	16	
User-selectable sustained-reward, refractory, damping factors	X	X	X	
Choice of manual or autothresholding	X	X	X	
Session Sequence Programmability e.g. Session Wizard	X	X	X	
General-Purpose Event Interface e.g. Event Wizard	X	X	X	
Built-in Session Tracking and Review with graphs	X	X	X	

BrainMaster Neurofeedback Software Comparison Chart

All above protocols operational with 1-24 channel EEG monitoring	1-4	1-19	1-24	
All above protocols operational with 1-19 channel Live Z-Score monitoring	1-4	1-19	1-19	
All above protocols operational with 1-19 channel Live Z-Score training	1-4	1-19	1-19	
Mini-assessment (Swingle, Demos) capability	x	x	x	
Selectable DC-offset readings for each channel	x	x	x	
Built-in Impedance measurement/monitoring for each sensor	x		(optional)	
Flexible, user-programmable MIDI outputs	24	24	32	
Built-in Flash Player	x	x	x	
3rd party content available for Flash Player	x	x	x	
3rd party games available (Zukor, Somatic Vision, CIS)	x	x	x	
Built-in DVD Player	x	x	x	
Built-in Multimedia Video Player (avi, mpeg)	x	x	x	
Built-in CD Player	x	x	x	
Built-in Multimedia Audio Player (wav, mp3, mp4)	x	x	x	
User programmability (Visual Basic, Flash)	x	x	x	
Vendor programmability (Visual C++)	x	x	x	
Auto-configurable screen layouts	x	x	x	
multiple live display types (bar, trend, spectra, spectral array)	x	x	x	
Simultaneous FFT and digital filter (jtfa) analysis/display	x	x	x	
live raw and z-score 2-D (flat) biofeedback maps		x	x	
3-d scalp surface raw and z-score maps			x	
User-configurable screen layouts			x	
multiple tabbed live screen selections			x	
user-configurable onscreen indicators/controls			x	
user-configurable excel file output			x	
Live Surface Z-Scores	1-4	1-19	1-19	
Ability to train all Z-scores (yes/no)	1-4	1-19	1-19	
Ability to train a proportion of Z-scores (PZOK)	1-4	1-19	1-19	
Simultaneous Live Z-Score and traditional neurofeedback	1-4	1-19	1-19	
Progress tracking using individualized (template-based) z-scores			x	

BrainMaster Neurofeedback Software Comparison Chart

Live sLORETA raw current-source-density monitoring/training			x	
sLORETA raw CSD training using user-definable bands			x	
Live sLORETA Z-Scores			x	
Simultaneous surface power/coherence training and sLORETA CSD training				
Simultaneous surface z-score training and sLORETA CSD training				
Simultaneous surface power/coherence training and sLORETA z-scores			x	
Simultaneous surface z-score training and sLORETA z-scores				
sLORETA connectivity training			<i>in development</i>	
Live, proportional, all-voxel sLORETA raw CSD reconstruction in real-time			x	
Live, proportional, all-voxel sLORETA z-score reconstruction in real-time			x	
User-definable directional training on any ROI's			x	
Kaiser Brodmann ROI's			x	
Photic stimulation integrated with neurofeedback protocols	x		x	
Auditory stimulation integrated with neurofeedback protocols			x	
Built-in support for subthreshold magnetic stimulation	x		x	
user event button input and channel display			x	
Support for peripheral modalities (HRV, SCR, EMG, etc)	x	x	x	