



BrainMaster 2E/2EW

Channel EEG Neurofeedback Monitor

WITH SYSTEM

BrainMaster 2E & 2EW are portable, rugged EEG monitors which are ideal for use in office or home training. Systems

are available, including amplifier/digitizer and software, including many video and audio feedback options.

Includes gold-disk electrodes and conductive gel

Activity fluid

Power charger

Protective carrying case

Manual

Electrode application manual

ABILITIES:

Statistical summaries

Auto-thresholding, percent time over

Threshold display

Real-time fly threshold adjustments

Multi-monitor capability with Windows

Multi-later

8) digital filters per channel

Bandpass with quadrature filtering

Spectral displays

Common-mode rejection mode

Coherence/Phase/Synchrony Training

Third-party software available

FEATURES

- MIDI and WAV file sounds
- Flexible protocols and adjustable frequency bands
- 1- and 2-channel training
- Coherence, phase, synchrony training
- EEG save and playback
- Software programming interface
- Optically isolated for safety
- Laptop compatible
- Periodic software updates available

BRAINMASTER 2E/2EW HARDWARE SPECIFICATIONS

COMMUNICATIONS

- Interface: RS-232 (25-pin female)
- Speed: 9600 Baud
- Isolation: optically isolated to 130V (continuous) or 1500V (1 sec)

EEG AMPLIFIERS

- Gain: 20,000
- Input Impedance: >1000 Gohms
- Input noise: <1.0 μ V (peak to peak)
- Operating Bandwidth: 1.0-40 Hz (2EW 0.5-64Hz)
- Common-mode rejection: >110 dB (2EW > 120dB)

DIGITIZER

- Type: successive approximation
- Maximum Sampling rate: 256 samples/sec (2-channel), 800 samples/sec (1-channel)
- Runs up to 800 samples/sec w/ specialized software. Call for details
- Conversion time: 16 msec
- Channels: 1 or 2
- Accuracy 0.4 microvolts

BRAINMASTER 2E/2EW BMT SOFTWARE SPECIFICATIONS

BUILT-IN RELAXATION PROTOCOLS

- Alert (focus, alertness)
- Asym (Asymmetry)
- Deep (deep relaxation)

- Focus (concentration, focus)
- Peak (peak performance)
- Relax (relaxation)
- Sharp (mental fitness)

Note: all benefits are based upon data obtained from EEG biofeedback

CUSTOM PROTOCOLS

- Amplitude, coherence, phase training
- Channel sum, difference training
- Autothresholding, many options
- 8 components per channel
- Many audio, visual feedback options
- Programmable session timing

FREQUENCIES RESOLVED:

(Nominal - user adjusted)

- Delta: 1-3 Hz
- Theta: 4-7 Hz
- Alpha: 8-12 Hz
- Low-Beta: 12-15 Hz
- Beta: 15-20 Hz
- High-Beta: 20-38 Hz
- Gamma: 38-42 Hz

Selectable filter sensitivity

DISPLAYS

- Raw and filtered waveforms
- Chaos phase-space display
- FFT or digital filter frequency response (Mini BrainMirror)
- Compressed spectral array
- Thermometer bar graph display
- Trend lines display
- BrainMan game
- BoxFlow Game
- X-wing game
- Circles game
- Dolphin animation
- Numeric display
- Coherence/Phase display

STATISTICAL SUMMARIES:

- Graphics, Text, Reports
- Amplitude, coherence, phase training
- Thresholds, percent time over threshold
- Export to Excel

UPDATES IN 2.0/2.5 SOFTWARE

Improved control and setup screens
 Refreshing for hands-off
 on
 Librarian™ for email or floppy
 Transfer of protocols and results
 Training software support for
 ease and confidence
 Improved graphics windows for 1- and 2-
 channel training
 Peak and RMS voltage scales
 Support of MINI-Q 12-channel headbox
 Improved statistical summaries and
 Reports
 More games, sounds, and optional AVI
 bundled on CD

UPDATES IN 2.5 SOFTWARE

Sampling rate to 256 sps
 Improved response timing

SYSTEM REQUIREMENTS

Windows™ Compatible
 Minimum III 650 MHz processor
 64 MB RAM
 Windows™ 98, ME, 2K, XP, NT, 2000,
 2003
 Minimum 64 MB RAM to run Windows
 Easy installation
 Compatible graphics adapter and
 monitor, 800 x 600 minimum, 1024 x
 768 greater recommended
 COM port (RS-232 or Modem)
 FireWire or compatible USB to
 serial converter interface required
 Windows compatible internal synthesizer &
 speaker
 Runs on Apple Mac G3 or G4 with
 FireWire or PC or SoftWindows!

OVERVIEW

Improved graphical animation displays
 Support for two-channel protocols interfaces
 Software, supports all training protocols.
 Includes a continuing 3-dimensional
 graphical world.

SYSTEM

Lightweight, non-saline, electrode headband
 Provides excellent electrode contact
 Easy setup

FLEXCAP 10/20

An accurate locator and an electrode holder.
 Especially good with larger numbers of electrodes
 and recording through hair. Specify training or
 assessment (MINI-Q) package.

CHECTRODE IMPEDANCE CHECKER

Stand-alone electrode checker with numeric
 readout of electrode impedance and offset.

MINI Q

12-channel headbox with software support
 for rapid EEG assessments and works with
 Clelectro Cap or manual electrodes. Program-
 mable epoch size, can scan 12 EEG channels in
 six minutes (1-more epochs). Export to excel,
 NeuroGuide, normative database optional.
 (Patent Pending)

STIMFLASH PHOTIC SIMULATOR SOFTWARE

Interfaces with computer sound port. Com-
 patible with Audio-Strobe compatible devices,
 providing high level of control of EEG-controlled
 light stimulation. (For investigational use only.)
 (Patent Pending)

INTERACTOR CUSHION SOFTWARE

Portable cushion controller provides EEG
 controlled vibration, enhancing the feedback
 experience. Can be incorporated into standard
 EEG protocols, providing an additional feedback
 modality.

Contact us:

BrainMaster Technologies, Inc.
 24490 Broadway Avenue
 Oakwood Village, OH 44146



440.232.6000

www.brainmaster.com
 sales@brainmaster.com



"These commodities, technology or software exported from the U.S.
 in accordance with the Export Administration Regulations.
 Diversion contrary to U.S. law prohibited."

Windows is a registered trademark of Microsoft Corporation. OS/2 is a registered
 trademark of IBM. BrainMirror is a registered trademark of BrainMaster Technologies,
 Inc. U.S. Patent No. 5,899,867 ©1999, 2000, 2001, 2002, 2003, 2004 BrainMaster
 Technologies, Inc. Part Number: 531-035 Revision 4, 02-01-05



BrainMaster
 2E/2
 2-Channel EEG Neurofeedback

Portable, battery powered
 EEG monitors ideal for
 use or home training

