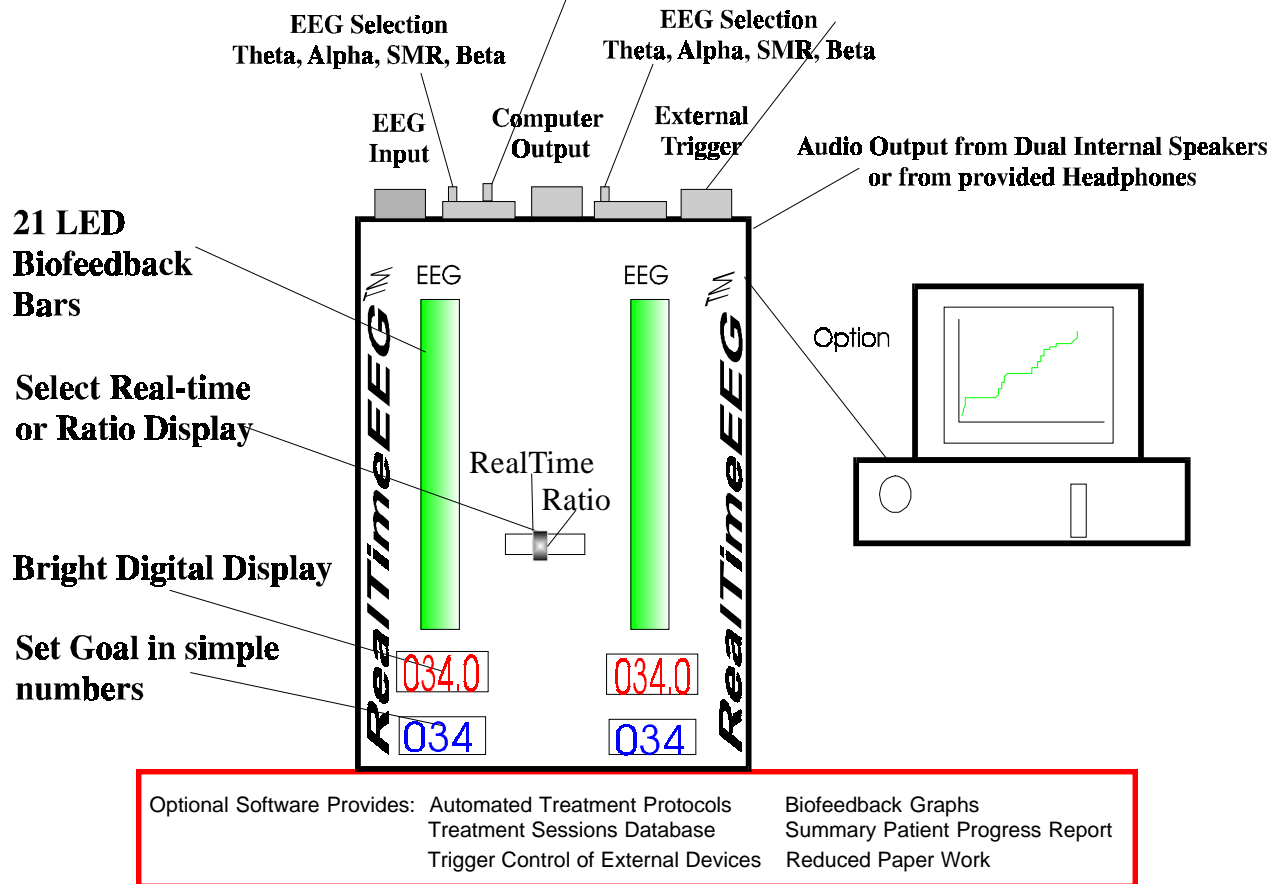


RealTimeEEG™

RealTimeEEG™ places the power of a high quality EEG system in an easy to use, portable instrument. Its colorful lightbar displays and audio tones are ideal for clinical biofeedback training of brainwave activity.

- ◆ Independent light bar, digital display, and audio control for one or two Frequency Bands.
- ◆ Real-time selectable display of Theta, Alpha, SMR, Beta, and raw EEG (audio).
- ◆ Easy to use controls with operating instructions printed on the back panel.
- ◆ Features NeuroDyne’s unique preamplified EEG electrode for high quality recordings.

Audio Types: Tone, Click, None, RawEEG



RealTimeEEG™ provides two independent 3-color light bars, dual digital displays for precise reading of EEG activity, and selectable audio tones for biofeedback training. Push button controls make threshold setting easy and accurate. Audio tones include *beep*, *click*, *signal* (an alarm mode), and *raw EEG sound*.

RealTimeEEG™ measures EEG activity using real-time, precision analog circuitry instead of sampling and digitally processing the signal. With real-time analog filters there are no quantization errors or time delays between actual EEG changes and the EEG display - an important consideration for effective biofeedback.

RealTimeEEG™ includes outputs for computer interfacing and triggering of external devices. RealTimeEEG™ comes complete with a preamplified EEG sensor, carrying case, battery charger and a two year warranty.

RealTimeEEG™ Portable Brainwave Biofeedback Monitor

Features

- ◆ Two vertical 3-color light bars with 21 individual light elements each allow fine visual discrimination of changes in EEG activity;
- ◆ Bright, easy to read numeric displays provide precise quantification;
- ◆ Independent audio feedback for each channel (beep, click, raw EEG sound) through internal speakers or head phones;
- ◆ Audio feedback may be continuous or begin when EEG levels go above or below a selected threshold value;
- ◆ Ratio mode provides a numeric display of the ratio of two frequency bands;
- ◆ Signal mode prompts the patient with a warning tone when EEG exceeds a specified level for more than 5 seconds;
- ◆ Threshold logic outputs can be used to trigger external devices;
- ◆ *RealTimeEEG™*'s easy to use operating instructions are printed right on the back of the unit;
- ◆ Comes complete with EEG sensor, battery pack, battery charger, tilt stand, carrying case, and manual.

Specifications

EEG quantification	microvolts RMS
Range (numeric display)	0.1 - 100 microvolts
Sensitivity (numeric display)	0.1 microvolt (0.01 computer interface)
Bandpass Filters (Hz)	Theta (4-7), Alpha (8-12), SMR (12-15), Beta (15-18), and raw EEG (0.1 - 90)
Filter response time	10% point < 40 mSec.
Notch filter	60Hz, 25 dB (50Hz option)
Bandpass rolloff	18 dB per octave
Common Mode Rejection	125 dB (100Hz) 150 dB (60Hz)
Differential Input Impedance	> 100,000 Meg Ohms

Outputs

Analog Signals	0 - 5 volt (Theta, Alpha, SMR, Beta, and raw EEG) Medical grade optical isolation built into unit
Threshold Logic	Two optically isolated 2.5 mm phone connectors
Audio	3.5 mm stereo phone connector (headphones or speakers)

Physical

Size	7" high x 5.0 / 4.3" wide x 1.6" thick Weight 2.1 Lbs.
Power	6 rechargeable AA nicad batteries in a removable pack Internal charge system; external charger option (AV-270)

Computer Power - The EEG Interface Pac (EEG-IPAC)

With the optional computer interface package (EEG-IPAC), you have a complete hardware and software package for connecting the *RealTimeEEG™* to a PC style computer system. NeuroDyne's easy to use menu based software supports graphic computer displays, training protocols, detailed data storage, automated patient records and printed reports.

NeuroDyne Medical, Corp.

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