BRAINWAVE ENTRAINMENT

"Optimized brainwave activity within minutes at any time of day."



The iMRS Prime and Omnium1 2.0 are the only PEMF systems in the world combining brainwave stimulation and Pulsed Electromagnetic Field therapy in one advanced application. Optimized cell function and brain function in a single multi-modality application is now possible!

The entire application is easily controlled within the same user friendly application on your Omnium1 2.0 or iMRS Prime.







Over decades Brain Wave Entrainment has become an integral part of modern mental training concepts. The technology is widely used as a very effective, supportive wellness, meditation and learning tool. The primary goal of a brain wave entrainment session is to utilize the basic tendency of the human brain to resonate with external stimuli. Hereby one can apply visible or audible external frequencies which can be recognized and processed by the brain. By properly controlling these applied frequencies, the brain starts resonating with it and adjusts its own frequency patterns. This way, the user can actively influence their mental state in a simple, non-invasive and immediate way. (This process is described in further detail below)

The Exagon Brain and Omnibrain are 3-way-brain wave entrainment systems, which create resonance using light, sound and color.

The goggle are comfortable and easy wear, inline with our pleasant, non-invasive approach to health. Each set has an audio jack, allowing any headphones to be plugged in for the tone and music stimulus, and a flexible PCB with built in LEDs to create the desired light and color frequencies. All patterns can be individually adjusted to suit user preference.

As an add on to your PEMF system, the Omnibrain or Exagon Brain may be individual purchased or bundled in for additional savings.

Make sure to check current promotions as they are occasionally offered for free on select promotions.

What is Brainwave Entrainment?



Brainwave entrainment was first identified in 1934, although its effects had been noted as early as Ptolemy.

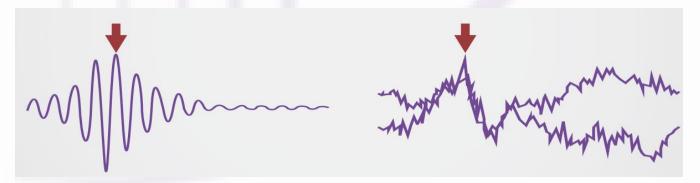
Not long after the discovery of the Alpha brainwave by Hans Berger in 1929, researchers found that the strength of the wave could be "driven" beyond its natural frequency using flickering lights. This is called "Photic Driving", which is another word for brainwave entrainment using photic (light) stimulation. In 1942 Dempsey and Morison discovered that repetitive tactile stimulation could also produce entrainment and in 1959, Dr. Chatrian observed auditory entrainment in response to clicks at a frequency of 15 per second.

By the 1960s entrainment started to become a tool rather than a phenomenon of the brain. Anesthesiologist M.S. Sadove, MD, used photic stimulation to reduce the amount of anesthesia needed for surgery. Bernard Margolis published an article on brainwave entrainment used during dental procedures, noting less anesthesia required, less gagging, less bleeding and a general reduction in anxiety.

In a 1973 issue of Scientific American, Dr. Gerald Oster examined how combining 2 pure tones resulted in a rhythmic beat which he called Binaural and Monaural Beats. In comparing Binaural beats against Monaural beats, Oster noted that Monaural beats were shown to elicit extremely strong cortical responses, which is the electrical activity responsible for entrainment. Oster concluded that while Binaural Beats produced very little neural response (because the depth of a Binaural Beat is only 3db or 1/10 the volume of a whisper), they could be useful in diagnosing certain neurological disorders.

In the 1980's studies continued with Dr. Glen Solomon and others researching entrainment for headache relief as well as general relaxation. In 1981, Arturo Manns published a study showing the effectiveness of Isochronic Tones as a means of audio-based brainwave entrainment. This was later confirmed by others such as David Siever. Michael Hutchison also wrote his landmark book MegaBrain in 1981, outlining the many possible uses of entrainment from meditation to enhancing creativity. In 1980, Tsuyoshi Inouye and associates at the Department of Neuropsychiatry at Osaka University Medical School in Japan found that photic stimulation produced "cerebral synchronization". The effect was confirmed in 1984 when Dr. Brockopp analyzed audio-visual brain stimulation and hemispheric synchronization during EEG monitoring.

Studies continued into the 90's with researchers such as Dr. Russell and Dr. Carter who explored the potential of using entrainment with ADD and learning disorders. Research has also been conducted into Chronic Fatigue, Chronic Pain, Seasonal Affective Disorder, Hypertension and a number of other disorders. Brainwave entrainment research continues today with the work of Dr. Thomas Budzynski, David Siever, psychologist Michael Joyce, Dr. Tina Huang and many others.



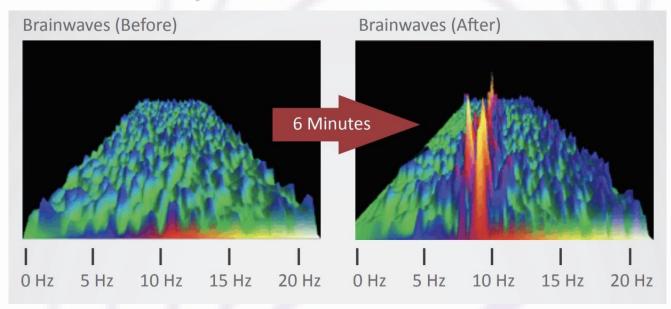
Pulsed of Sound

Cortical Evoked Response

Brainwave Entrainment refers to the brain's electrical response to rhythmic sensory stimulation, such as pulses of sound or light. 1, 2, 3, 4, 5 When the brain is given a stimulus, through the ears, eyes or other senses, it emits an electrical charge in response, called a Cortical Evoked Response (shown below). These electrical responses travel throughout the brain to become what you "see and hear." This activity can be measured using sensitive electrodes attached to the scalp.

When the brain is presented with a rhythmic stimulus, such as a drum beat for example, the rhythm is reproduced in the brain in the form of these electrical impulses. If the rhythm becomes fast and consistent enough, it can start to resemble the natural internal rhythms of the brain, called brainwaves. When this happens, the brain responds by synchronizing its own electric cycles to the same rhythm. This is commonly called the Frequency Following Response (or FFR):

Brain Response to 10 Hz Entrainment

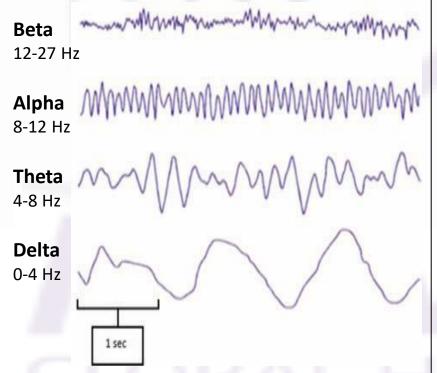


FFR can be useful because brainwaves are very much related to mental state. For example, a 4 Hz brainwave is associated with sleep, so a 4 Hz sound pattern would help reproduce the sleep state in your brain. The same concept can be applied to many other mental states, including concentration, relaxation and meditation. As a session progresses, the frequency rate of the applied pulses is changed slowly, thereby changing your brainwave patterns and guiding your mind to various useful mental states.

Brainwave Frequencies

With the discovery of brainwaves came the discovery that electrical activity in the brain will change depending on what the person is doing. For instance, the brainwaves of a sleeping person are vastly different than the brainwaves of someone wide awake. Over the years, more sensitive equipment has brought us closer to figuring out exactly what brainwaves represent and with that, what they mean about a person's health and state of mind.

Wave	Frequency	Associated Mental State
Beta	12-27 Hz	Wide awake. This is generally the mental state most people are in during the day and most of their waking lives. Usually, this state in itself is uneventful, but don't underestimate its importance. Many people lack sufficient beta activity, which can cause mental or emotional disorders such as depression and ADD and insomnia. And low SMR production (a sub-range of beta at 12-15hz) may be related to insomnia. Stimulating beta activity can improve emotional stability, energy levels, attentiveness and concentration.
Alpha	8-12 Hz	Awake but relaxed and not processing much information. When you get up in the morning and just before sleep, you are naturally in this state. When you close your eyes your brain automatically starts producing more alpha waves. Many studies monitoring the EEG activity of experienced meditators have revealed strong increases in alpha activity. Alpha activity has also been connected to the ability to recall memories, lessened discomfort and pain, and reductions in stress and anxiety.
Theta	4-8 Hz	Light sleep or extreme relaxation. Theta is also a very receptive mental state that has proven useful for hypnotherapy, as well as self-hypnosis using recorded affirmations and suggestions.
Delta	0-4 Hz	Deep, dreamless sleep. Delta is the slowest band of brainwaves. When your dominant brainwave is delta, your body is healing itself and "resetting" its internal clocks. You do not dream in this state and are completely unconscious.



The Significance of Brainwaves

You can tell a lot about a person simply by observing their brainwave patterns. For example, anxious people tend to produce an overabundance of high beta waves while people with ADD/ADHD tend to produce an overabundance of slower alpha/theta brainwaves. Researchers have found that not only are brainwaves representative of mental state, but they can be stimulated to change a person's mental state, and this in turn can help with a variety of mental issues.

Color Therapy (Chromo Therapy)

Chromotherapy is a therapeutic science which has been used by many races for thousands of years. The ancient Egyptians used specially built solarium rooms with different colored glasses. The sun would shine through the colored glass onto the patient to achieve specific therapeutic benefits. Others used different colored silk clothes to filter varying shades of light onto their bodies. There are also reports of using colored waters and colored gels to achieve the same results.

Chromotherapy is a narrow band in the cosmic electromagnetic energy spectrum, known as the visible color spectrum. It is composed of reds, greens, blues and their combined derivatives, producing the perceivable colors that fall between the ultraviolet and the infrared ranges of energy or vibrations. These visual colors with their unique wavelength and oscillations, when combined with a light source and selectively applied, provide the necessary healing energy required by the body. Light affects both the physical and etheric bodies. Colors generate electrical impulses and magnetic currents or fields of energy that are prime activators of the biochemical and hormonal processes in the human body, the stimulants or sedatives necessary to balance the entire system and its organs.

These days, many natural therapists are using chromotherapy on their patients in interesting ways. Colors influence us differently because they have different wavelengths and frequencies, and these affect different parts of the brain.





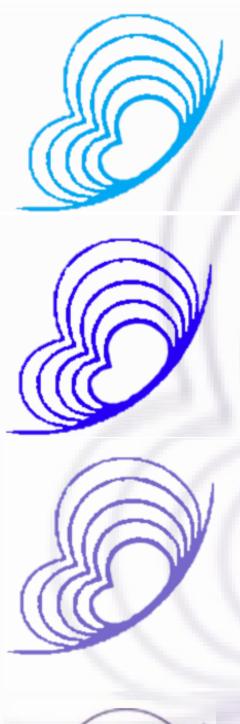
RED is hot, initiating, igniting, stimulating, vitality, lifeforce energy, revolution, change, ambition, grounding, passion, alert, pioneering, activity, positive, survival, material side of life, primal, awakening, emerging. In relation to the physical body, RED is documented to create positive effects on circulation, chronic illness, non-infected wounds, scar tissue, strengthens kidneys, heart, muscles, blood, lungs, bones.

ORANGE is joy, happiness, warmth, creativity, pleasure, sensuality, sexuality, generosity, moves energy gently, awakening to wisdom within oneself, sociable, aspiring, gregarious. In relation to the physical body, ORANGE is documented to create positive effects on depression, cramping anywhere in body, relaxant, sclerosis, heart disease, boosts immune system, circulation, raises blood pressure, artery disturbance (especially in legs), genitals, fear (alternate with blue), endocrine balancer (when used with blue), cleans and purifies hormonal system.



YELLOW is mental activity, learning, intellect, acquired/learned knowledge, individuation, alertness, concentration, focus, cheerful, sun, warmth, cleaning, fear, empowerment, self-esteem, confidence. In relation to the physical body, YELLOW is documented to create positive effects on combating fear (obsessive, habitual), digestion, stomach, gall bladder, liver, immune system, fortifies endocrine and nervous systems, nerve tonifier, motor stimulant, assimilation, lateral disturbances, helps chronic to become acute.

GREEN is sedative, cooling, calming, soothing, fluidity, growth, balance, money/prosperity, birth, new beginnings, nature, health, healing, heart, loving, expansion, curiosity, good for people who do precision work, space, trust, feelings, integrity, harmony, seeking Colors and it's described effects: truth, relationships. In relation to the physical body, GREEN is documented to create positive effects on liver, swelling or growth, anti-inflammatory, eye problems, bronchial catarrh, gout, diabetes, cysts, tumors, pituitary stimulant, washes out endo-toxins, promotes healthy bones, painful joints, allergies.



TURQUOISE is a bridging color, higher heart, making contact with yourself, communication of the heart, creative communication, studying and gathering information, learning, unconditional love, self-respect, respect for all life, taking individual responsibility. In relation to the physical body, TURQUOISE is documented to create positive effects on immune system, skin (burns and infections), mental relaxation, ph balance, toning, regulates lung/large intestine systems. TURQUOISE stimulates the thymus center. **BLUE** is calming, deep inner peace, restful, openness, cooling, relaxing, assists in making deep changes, higher mental activities (3rd eye), insight, wisdom, sky, water, sadness, unity, safety, godliness, communication that comes through us, clarity. In relation to the physical body, BLUE is documented to create positive effects on anti-bacterial, antiinfection, anti-cramping, headaches, helps farsightedness, facilitates restful sleep, pain relieving, nervousness, insomnia, hemorrhage, herpes, warts, lowers blood pressure, fever.

INDIGO/ROYAL BLUE is the higher mind that is connected to the all-that-is, the akashic records, the cosmic library. It is the color that makes contact with your "inner vision" or intuition, that part of you which sees beyond the five senses.



VIOLET stimulates emotions, meditation, inspiration, intuition, inner emotional release, opening inner doors, stimulates dreams, wisdom, spirituality, higher mind, power, will, letting go, vision, transformation, alchemy, loyalty, synthesis, integration, mysticism, clairvoyance/clairaudience/clairsentience, service, union, artistry, balance of male and female. In relation to the physical body, VIOLET is documented to create positive effects on menopause, spleen, sedative, relaxant, build leucocytes, lymphatic relaxant, soothes solar plexus, neutralize mercury from fillings, anti-viral.

OMIBRAIN



\$887 CDN \$687 US

- *Included in the following bundles as well as select promotions:
- Basic Combo
- Complete Combo





\$1106 CDN \$855 US

*Included in all "SET" bundles and select promotions.