

# Biofeedback Systems – Complete Range

CE-Certified | Multi-Parameter | PC-Based & Standalone Models

RS Enterprises offers a complete range of Biofeedback systems designed for stress management, rehabilitation, and psychiatric/neurological applications. Our solutions include individual biofeedback modules as well as an advanced PC-based 6-channel system with reporting software.

## Individual Biofeedback Modules

- GSR Biofeedback (GBF-2000) – Emotional relaxation & stress control
- Alpha EEG Biofeedback (EBF-5000) – Alpha activity training for mental balance
- Pulse Biofeedback (PBF-3000) – Heartbeat & blood pressure regulation
- Respiration Biofeedback (EBF-8000) – Deep relaxation & breathing therapy
- EMG Biofeedback (MBF-4000) – Muscle relaxation & headache relief
- ECG Biofeedback (EBF-9000) – Heart & ECG rhythm training

## Advanced PC-Based 6-Channel Biofeedback System

The 6-Channel PC-Based Biofeedback System integrates all six parameters (GSR, EEG, Pulse, Respiration, EMG, ECG) into a single advanced unit with reporting and analysis software. It offers detailed patient monitoring, graph-based analysis, and secure data storage. Ideal for hospitals, research, neurology, psychiatry, and rehabilitation centers.

## Comparison of Models

Features / Parameters	Individual Modules	PC-Based 6-Channel System
Parameters Covered	One per device (GSR, EEG, Pulse, Resp, EMG, ECG)	All 6 combined in one system
Display	TFT/LCD on each unit	PC software interface with detailed graphs
Reporting	No in-built reporting	Full reporting & analysis software
Data Storage	Limited / per session	Extensive PC-based storage
Portability	Portable standalone units	PC-compatible, portable setup
Use Case	Small clinics, individual therapy	Hospitals, institutes, research, rehab centers

**For detailed pricing & quotation, contact us at:**

rsenterprises227@gmail.com | +91 9832362661

# Digital Biofeedback (Audio & Visual)

An effective device to teach relaxation without consuming pills and hence no side effects



## GSR BIOFEEDBACK (GBF-2000)

- Useful in self control over emotional responses leading to relaxation.
- GSR wave & value display in K-ohm on TFT.
- Mode : Actual and balance.
- Feedback provided in Green and Red bar gain on TFT.
- Sweep Speed: 1,2,5,10 & 25 mm/sec.



## ALPHA EEG BIOFEEDBACK (EBF-5000)

- By learning the generation of Alpha activity the subject suffering from a chronic mental posture contributing a component of Psychosomatic Psychological disorder can cultivate a more normal mental posture.
- Mode average & integrator.
- Sweep Speed: 1,2,5,10 & 25 mm/sec.
- EEG wave & EEG value displayed in micro volts.
- Feedback provided in Green and Red bar gain on TFT.



## PULSE BIOFEEDBACK (PBF-3000)

- Useful in controlling heart beat, blood pressure irregularities and relaxation training.
- Pulse transducer based on IR detector.
- Mode : Actual and balance.
- Sweep Speed: 1,2,5,10 & 25 mm/sec.
- Display of pulse rate [0-200] & Pulse wave on TFT.
- Feedback provided in Green and Red bar gain on TFT.



## RESPIRATION BIOFEEDBACK (EBF-8000)

For Deep Relaxation Therapy

- Deep progressive relaxation and increased Parasympathetic responses by the feedback of breathing rhythm.
- Transducer non contra sensor.
- Mode : Actual and balance.
- Sweep Speed: 1,2,5,10 & 25 mm/sec.
- Respiration rate & wave display on TFT.
- Feedback provided in Green and Red bar gain on TFT.



## EMG BIOFEEDBACK (MBF - 4000)

- Useful for tension headache & muscle relaxation.
- Feedback mode : Actual and balance.
- Sweep Speed: 1,2,5,10 & 25 mm/sec.
- EMG value displayed in micro volts.
- Feedback provided in Green and Red bar gain on TFT.
- Average & EMG wave display on TFT.



## ECG BIOFEEDBACK (EBF - 9000)

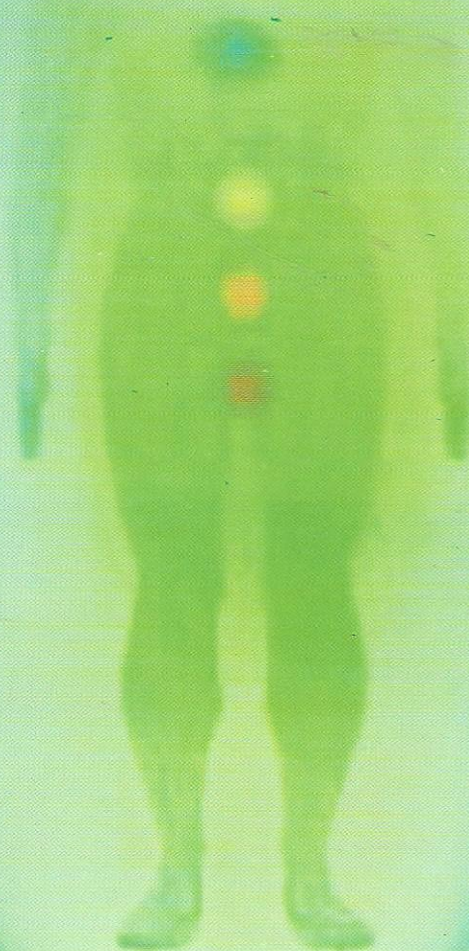
- The application & specification and uses of ECG Biofeedback is the same as that of Pulse Biofeedback the signal is detected from the QRS wave of ECG.
- Mode : Actual and balance.
- Sweep Speed: 1,2,5,10 & 25 mm/sec.
- Display of Heart rate [0-200] & ECG wave on TFT.
- Feedback provided in Green and Red bar gain on TFT.







# Computerised **Biofeedback** Audio & Visual



An effective device  
to teach relaxation without consuming  
pills and hence no side effects

Pioneers in the field of Neuro-Psychiatry and Psychology



## What is biofeedback

Biofeedback is a technique in which people are trained to improve their health by learning to control certain internal bodily processes that normally occur involuntarily, such as heart rate, blood pressure, muscle tension and skin temperature. These activities can be measured with electrodes and displayed on a monitor that both the participant and his or her practitioner can see. The monitor provides feedback to the participant about the internal working of his or her body. This person can then be taught to use information to gain control over these "involuntary" activities.

### How does biofeedback work

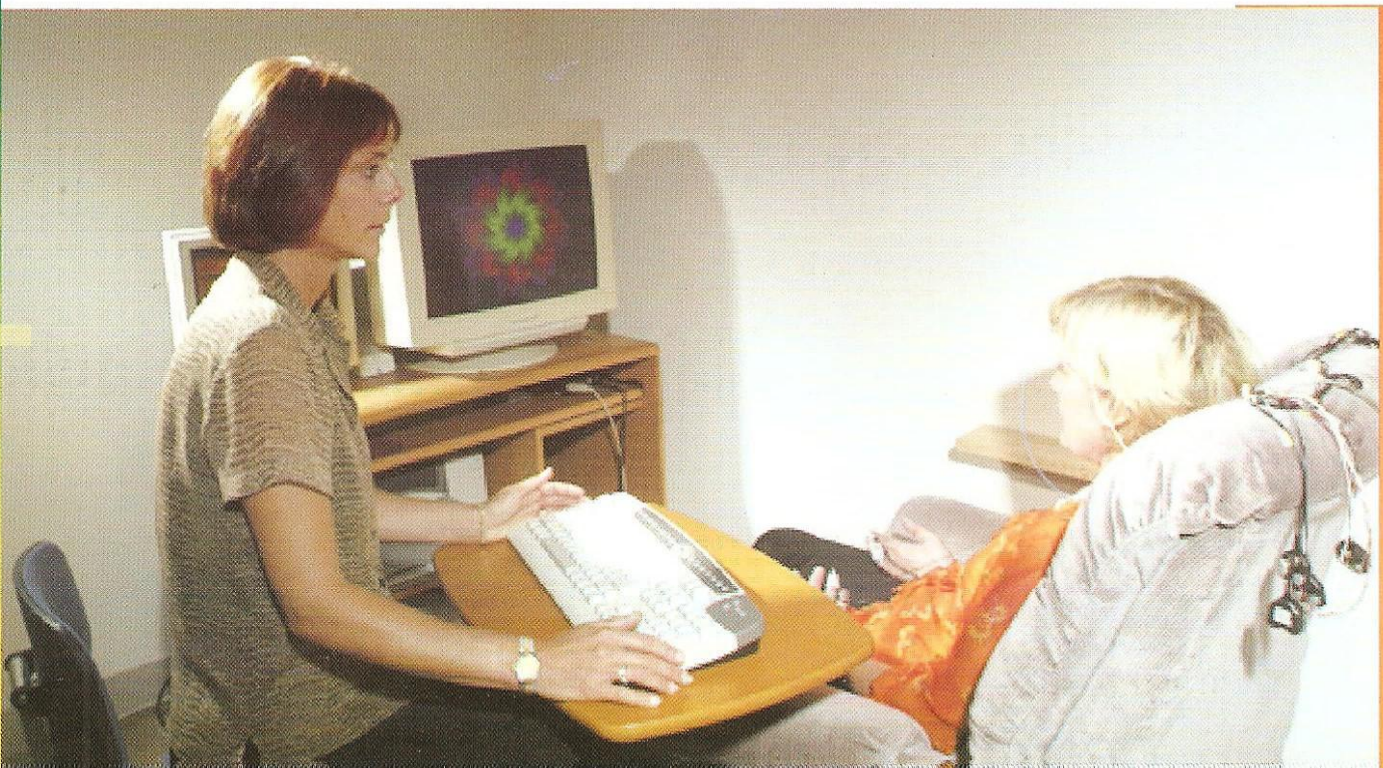
Scientists are not able to explain exactly how or why biofeedback works, there does seem to be at least one common thread : most benefit form biofeedback have conditions that are brought on or made worse by stress for this reason, many scientist believe that relaxation is key to successful biofeedback therapy.

### What happens during a biofeedback session?

In a normal biofeedback session, electrodes are attached to the skin. These electrodes then feed information to a small monitoring box that translates the physiologic response into a tone that lines moving in pitch, a visual meter that varies in brightness, or a computer screen that mental exercises. Through tries and error, people can learn to identify and control the mental activity that will bring about the desired physical changes.

### How many sessions will I need

Each session generally lasts less than one hour. The number of session required depends on the condition being treated. Many people being to see results within 8 to 10 sessions. Treatment of headache, incontinence, and Raynaud's disease (A condition that causes diminished blood flow to the fingers, toes, nose, or ears) requires at least 10 weekly sessions and then less frequent sessions as health improve. Conditions like high blood pressure, however, usually requires 20 weekly biofeedback sessions, you will also be taught mental before exercises and relaxation techniques that can be done at home and must be practices at least 5 to 10 minutes every day.

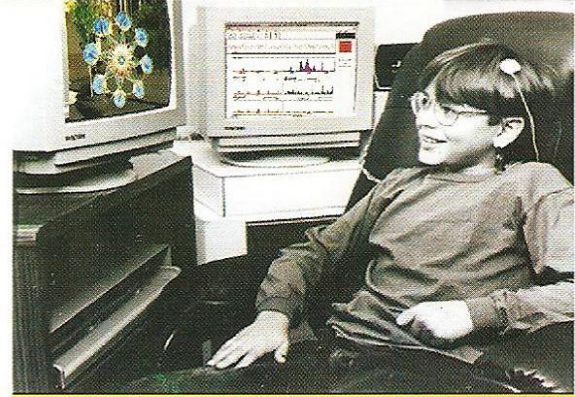


Relaxation training procedure



## Therapeutic Management of :

- Chronic Stress
- Anxiety
- Asthma
- Anorexia
- Autism
- Raynaud's disease
- Autism
- Backpain
- Bed Wetting
- Constipation
- Diabetes
- Headache
- Migraine
- Fecal Incontinence
- Epilepsy and related seizure Disorders
- High Blood Pressure
- Irregular heartbeats (cardiac arrhythmia)
- Learning Disabilities
- Motion sickness
- Muscle Spasms
- Sexual disorders including pain with inter course
- Spinal Card Injuries.

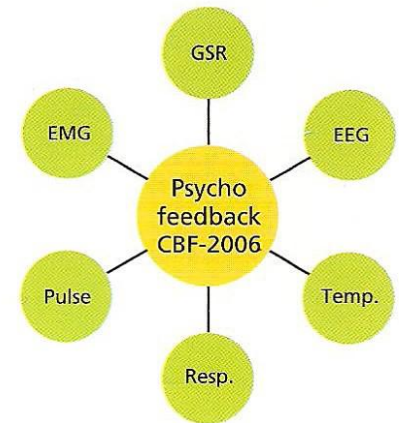


Neurofeedback useful in students having examination stress, lack of concentration and hyperactive

## Are there different types of biofeedback

The six commonly used forms of biofeedback therapy are:

- Neurofeedback or electroencephalography (EEG), which measures brain wave activity
- Electromyography (EMG), which measures muscle tension
- Thermal biofeedback, which measures skin temperatures
- Pulse Rate
- GSR Biofeedback
- Respiration rate Biofeedback, which measures Respiration Rate



## Are there any risks associated with biofeedback :

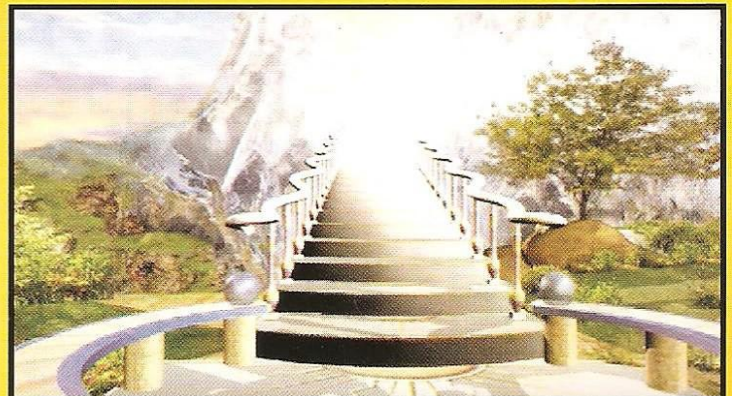
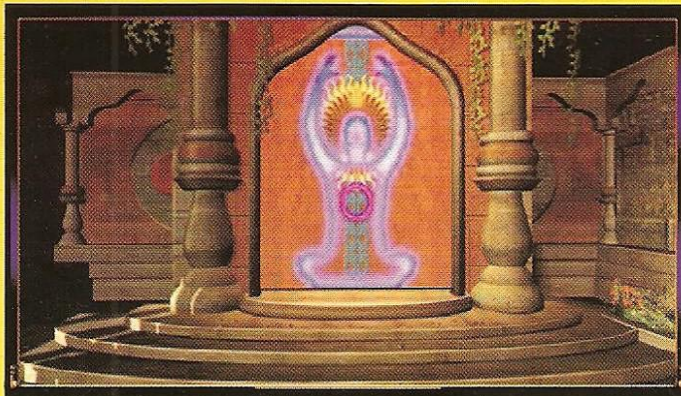
Biofeedback is considered a safe procedure. No negative side effects have been reported.

## How can I find a qualified practitioner:

Specialists who provide biofeedback training range from psychiatrist and psychologists to nurses, dentist, and physicians.

## Biofeedback Games :

Select a game out of number of games provided. Playing our games you learn the skills of relaxation.



3D Graphics biofeedback games for participants



*We are manufacturing three models of Biofeedback system*

## Neurofeedback NB-208

Specially used for the management of Stress, Depression, Insomnia, Concentration problem in children & adult, ADHD (Attention Deficit Hyperactive Disorder) in children and adult, OCD (Obsessive Compulsive Disorder) Headache and many more.

"Neurofeedback" is used to enhance a particular frequency based of EEG (electroencephalograph) waves.

The EEG measures brain waves of different frequencies within the brain. Electrodes are placed on specific sites on the scalp to detect and record the electrical impulses within the brain.

The raw EEG has usually been described in terms of frequency bands : **GAMMA** (greater than 30Hz) **BETA** (13-30Hz) **ALPHA** (8-12Hz) **THETA** (4-8Hz) and **DELTA** (Less than 4Hz)

The effect of enhancing different frequency band activity via training through MEDICAD'S Neurofeedback are detailed below:

1. **DELTA** (0.1 to 4 Hz) can induce drowsiness, trance, deeply relaxed states.
2. **THETA** (4-8Hz) can induce drifting, trance-like state and if suppressed can improve concentration, ability to focus attention.
3. **ALPHA** (8-12Hz) can produce deeper states of relaxation and to improve the quality of sleep.
4. **SMR** (12-15Hz) can produce relaxed focus, improved attentive abilities.
5. **MIDRANGE BETA** (15-18Hz) can produce mental ability, focus, alertness, IQ etc.
6. **HIGH BETA** (Above 18Hz) can induce alertness but may also produce agitation etc.

### Neurofeedback beneficial for:

- Persons with Psychiatric and Psychological problems and Tired of taking Medicines.
- Students, Executives, CEO's and Call Centre Employees.
- Hotels, Resorts, Spa, Wellness Lifestyle Centres
- Anybody and Everybody who wants to remain Healthy without Medicines!

## Psychofeedback CBF-206

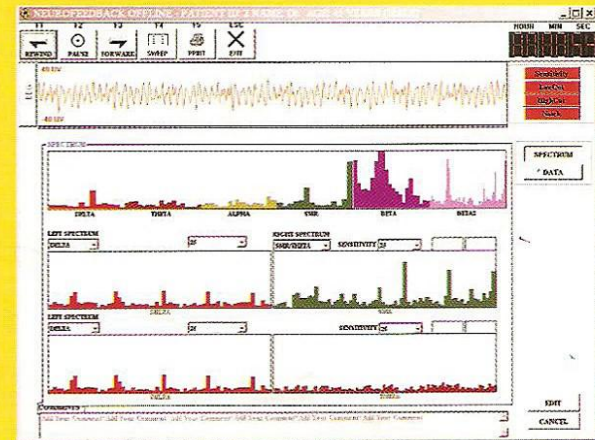
Consisting of: GSR, Temp., Pulse, Resp., EMG,  
- EEG (Neurofeedback) parameters

## Mayosym MS - 207

Consisting of: EMG, GSR, EEG (Neurofeedback) parameters

### Minimum computer hardware requirement :

COMPUTER : Pentium-IV, 256 MB RAM, 1.44 MB FDD, 80 GB HDD, CD ROM, Keyboard, Mouse  
MONITOR 1 : CRT/LCD for test data  
MONITOR 2 : CRT/LCD for animation pictures  
PRINTER : Windows supporting any colour printer  
OPERATING SYSTEM : Windows XP/ Vista



Neurofeedback spectrum analysis



3D Graphics biofeedback games

MARKETED BY  
R.S. Enterprises



Head Office  
R.S. Enterprises  
Mayfair Crown B-202  
Zila Parishad Road  
Jyoti Nagar, Siliguri  
734001

Kolkata Branch  
R.S. Enterprises  
Upohor Complex  
C-2/614, Chakgaria  
Kolkata - 94

Guwahati Branch  
R.S. Enterprises  
TechForce,  
Harakanta Sarmah Bhawan,  
Mazzanine floor,  
Dr. B. Borooah Road,  
Ulubari, Guwahati 781007

An ISO 9001:2015 Certified Company

www.rsenterprisesindia.co.in

E-mail: rsenterprises27@gmail.com

Phone: 98323632661 / 9800685887 / 9474878436

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