

# Biomatrix Scan

## A Scientific and Holistic Evaluation Tool for Human Biofield Analysis

### Introduction

The Biomatrix Scan system, comprising the IM@GO-GRIF and IM@GO-AURA modules, represents an integrative Evaluation technology developed for real-time assessment of physiological, emotional, and energetic states. Rooted in advanced bioelectrical and neurodynamic analytics, the Biomatrix Scan is a portable, non-invasive solution designed to support health practitioners and wellness facilitators in evaluating the dynamic balance of the human body.

### System Overview and Functional Design

The Biomatrix Scan is a compact cardio-tachometric diagnostic complex. It utilizes ECG registration and various computational models to interpret systemic and bioenergetic functions, offering both quantitative metrics and intuitive visualizations such as aura graphs, chakra maps, and meridian energy flows.

### Key Features

- **Real-time ECG Monitoring:** Collects and analyzes electrical heart signals.
- **Heart Rate Variability (HRV) Analysis:** Evaluates the autonomic nervous system and cardiovascular regulation.
- **Neurodynamic Analysis:** Interprets neurohumoral control mechanisms.
- **Fractal Analysis:** Estimates biological rhythms and adaptation potential.
- **Brain Biorhythm Mapping:** Determines psychoemotional status through EEG-correlated models.
- **Aura, Chakra, and Meridian Visualization:** Graphical interfaces represent subtle energy systems based on physiological inputs.

### Scientific Principles Behind the Biomatrix Scan

The device operates on well-established bioelectrical and biophysical foundations:

#### 1. Electrocardiographic Analysis (ECG)

The core data source is the ECG, which captures electrical activity of the heart. Variations in ECG waveform morphology provide insights into autonomic function, stress levels, and cardiovascular health.

#### 2. Heart Rate Variability (HRV)

Using time-domain and frequency-domain methods, HRV analysis quantifies the influence of the sympathetic and parasympathetic nervous systems. It's a robust marker for systemic resilience, vagal tone, and adaptability.

#### 3. Fractal and Nonlinear Dynamics

Fractal analysis evaluates the complexity and self-regulation of physiological rhythms. Biological systems with high variability and fractal coherence are typically healthier and more adaptable.

#### 4. Neurodynamic Assessment

Neurodynamic modeling interprets central regulatory influences (e.g., hypothalamic-pituitary axis), gauging hormonal and neurochemical stability based on rhythmical patterns in the heart and brainwave analogs.

#### 5. Brain Biorhythm Mapping

Although not a full EEG, the system estimates psychoemotional conditions via correlative algorithms. This provides a readout of mental stress, emotional tone, and cognitive load.

#### 6. Energetic Modeling: Chakras, Aura, Meridians

The device translates physiological measurements into energetic language:

- **Chakras** are interpreted as energy centers with corresponding autonomic and hormonal control zones.
- **Aura Graphs** are synthesized from biofield coherence patterns.
- **Meridian Maps** utilize Yin-Yang balance approximations derived from HRV and segmental analysis.

These integrations align with modern understandings of psycho-physiological coupling and traditional systems like TCM and Ayurveda.

### Clinical and Practical Applications

#### Use Cases

- Ongoing wellness monitoring in integrative practices
- Assessment of stress, fatigue, and adaptation in athletes
- Evaluation of treatment effects in frequency therapy, bioresonance, or physiotherapy
- Comparison of pre- and post-intervention bioenergetic states

#### Benefits

- Quick, visual feedback for clients
- Objective tracking of biofunctional and energetic changes
- Enhanced client engagement through intuitive charts
- Ability to fine-tune light, frequency, and vibrational therapies based on diagnostic evidence

### Technical Specifications

- **Input Voltage Range:** 0.03 – 5 mV
- **Input Impedance:**  $\geq 5 \text{ M}\Omega$
- **Internal Noise Level:**  $\leq 10 \text{ }\mu\text{V}$
- **Frequency Response:** 0.03 – 500 Hz
- **Digitization Rate:** 1000 Hz
- **Quantization Resolution:** 12-bit
- **Data Transfer Rate:** 38 Kbps via USB

### Interpretation Interface

The software interface is divided into:

- **Client Record Management**
- **Tab-based Analysis Modules** (ECG, Vegetative, Hormonal, Emotional, Fractal, Overall Health)
- **Graphical Display Options** for real-time dynamics and treatment comparisons

The green indicator light confirms operational readiness, and the program includes sound notifications and diagnostic alerts.

*Safety compliance is aligned with GOST standards for medical electronics, ensuring its suitability for both home and clinical environments.*

## **Conclusion**

The Biomatrix Scan bridges conventional biomedicine with energetic diagnostics, offering a scientifically grounded yet holistic approach to human assessment. Quantifying both physiological resilience and subtle energy states, and empowers practitioners with actionable insights and enhances the personalization of light, frequency, and consciousness-based therapies.

## **References:**

### **1. The Coherent Heart–Brain Interactions, Psychophysiological Coherence, and the Emergence of System-Wide Order**

Authors: Rollin McCraty, Ph.D., Mike Atkinson, Dana Tomasino, B.A., and Raymond Trevor Bradley, Ph.D.

Published in: Integral Review (2009)

**Overview:** This article presents theory and research on the scientific study that emphasizes the importance of Heart Coherence as an optimal psychophysiological state. A dynamic systems view of the interrelations between psychological, cognitive and emotional systems and neural communication net

### **2. An integrative review of the heart's anatomy and heart rate variability**

Authors: Fred Shaffer, Rollin McCraty, and Christopher L. Zerr

Published in: Frontiers in Psychology (2014)

**Overview:** This article reviews sympathetic and parasympathetic influences on the heart, and examines the interpretation of HRV and discusses the intrinsic cardiac nervous system and the heart-brain connection, through which afferent information can influence activity in the subcortical and frontocortical areas, and motor cortex.

### **3. Heart–Brain Neurodynamics: The Making of Emotions**

Author: Rollin McCraty

Published by: Institute of HeartMath

**Overview:** The relationship between mind and emotions and Heart Rate Variability

### **4. The Informational Field and Superluminal Communication: A Bridge Between Physics and Consciousness**

Author: V.P. Oleinik

Published by: Department of General and Theoretical Physics, National Technical University of Ukraine "Kiev Polytechnic Institute"

**Overview:** Recent theoretical advances in electromagnetic field theory suggest the existence of an "informational field" capable of transmitting signals instantaneously, without the transfer of energy or momentum. This expanded article synthesizes Oleinik's core arguments, provides contextual analysis, and explores the broader implications for quantum physics, information theory, and consciousness research.

### **6. Biomatrix Scan Full with operational with Certificates.**