



- Broad clinical applicability – Muscle & tendon therapy, bone and wound healing
- Combined PEMF / DMA and RF application
- Practical interface – Easy controls and patient monitoring
- Remote connectivity and reporting
- Portable and modular design
- Zero upfront investment – Pay as you go model

Technical Features

Combined PEMF / DMA and RF therapeutic activation

- Localized, deep-tissue application
- Adjustable frequency and power (20+ cm penetration)

Practical interface with easy controls and patient monitoring

- Tablet-based control, patient and staff account management
- Secure data management with cloud & local storage

Remote connection for fast support

- OTA software updates, device health monitoring
- Portable and modular architecture

Portable and modular architecture

- Application-specific applicators: Radiofrequency, Magnetic field, dual-mode applicators, multi-channel module (up to 8 channels)Multiple mat sizes for different indications
- Fixation bands for region-specific applications
- Tablet & app for full device & account management

Medical Background & Mechanism of Action

SmartHEAT Activated Pathways

Enzyme Mechanisms

Nitric Oxide Synthase (nNOS, eNOS)	Enhances blood flow and supports healing via vasodilation, activates osteoblasts and tendon cells
CaMK (Ca²⁺-Calmodulin-Dependent Protein Kinase)	Increases muscle growth and regeneration; supports osteoblast activity
Calcineurin (Ca²⁺-Calmodulin-Dep. Phosp.)	Improves muscle adaptation, facilitates tendon recovery, accelerates bone formation
Adenylate Cyclase (Ca²⁺-Calmodulin-Dependent)	Accelerates muscle and tendon repair via cAMP-mediated pathways; enhances osteoblast activity
MLCK (Myosin Light Chain Kinase)	Regulates muscle contraction, accelerates tendon repair, increases osteoblastic activity
MLCP (Myosin Light Chain Phosphatase)	Promotes muscle relaxation, increases tendon elasticity, improves bone blood flow
PDE1 (Calmodulin-Dep. Phosphodiesterase 1)	Supports muscle growth regulation, tendon homeostasis, and bone mineralization

For a comprehensive overview of the medical mechanism of action, supporting studies, clinical applications, and references, please review our healthcare-professional booklet, "SmartHEAT Hybrid Electromagnetic Activation Therapy – Medical Mechanism of Action."

Key Areas of Application

- Muscle and tendon injuries
- Fracture and bone-healing support
- Deep-tissue regeneration
- Circulation enhancement & oxygenation
- Clearance of lactic acid, histamine, and other inflammatory metabolites

Flexible Business Model

- Zero upfront investment – Pay-as-you-use model
- Scalable solutions tailored to your organization's needs
- Service, maintenance, consumables, technical support, and software updates included

For any questions or requests, please contact us

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