SPECIAL REPORT

Devices evaluated by ANH

To evaluate these devices, we used the 10 parameters created by Bulgarian scientist Marko Markov, PhD, author of more than 14 books and 474 scientific papers and co-author of *Electromagnetic Fields in Biology and Medicine* (CRC Press/Routledge, 2015). These parameters include type of field, frequency, intensity and pulse shape.[4]

We also elicited information from the companies themselves, and some of their replies suggested there is a lack of knowledge or an insufficient desire for transparency.

One representative told us, "We don't know how to provide the data you need." Another replied, "It's all proprietary information and I signed a non-disclosure agreement, so I can't provide you with technical specifications."

Another couldn't, or wouldn't, provide any technical data, simply replying, "[Our device] emits its own resonating frequencies which create a field."

Of the 23 devices we evaluated based largely on publicly accessible information, together with a prompt for any additional information by email, we were surprised to see how little data fitting Markov's checklist of parameters was available.

However, we were pleased to find clear exceptions. Here's the data we managed to tabulate. Just bear in mind, though, this information was the best we could gather from manufacturers' existing public information and from our requests. In the event of any errors or omissions, we'd be happy to hear from any of the manufacturers listed.

DEVICE BRAND NAME (MANUFACTURER)	DEVICE TYPE	REGISTERED MEDICAL DEVICE (Y/N) AND CLASS	ENERGY SYSTEM MEASUREMENT (DIAGNOSTIC; M) AND/OR TREATMENT (T)	FREQUENCY RECEIVER (Y/N: IF YES, INCL RANGE)	ELECTRICALLY POWERED FREQUENCY EMISSION (Y/N) AND TYPE		MARKOV PARAMETERS (FOR EMISSION DEVICES ONLY)	EVIDENCE OF EFFECTIVENESS	WEBSITE
ARC Microtech ARC4Health	Transcutaneous Electrical Nerve Stimulation (TENS)	Y, IIa	T	-	Y, microcurrent		Output current 0–400 μA	arcmicrotech.com/arc4health/science-of-microcurrent	arcmicrotech.com
BICOM Optima	Pulsed Electromagnetic Field (PEMF) / Bioresonance therapy	Y, IIa	M	-	Y, PEMF		1 Hz–250 kHz	bicom-bioresonance.com/clinical-study	bicom-bioresonance.com
BioEnergetiX WellNES System	PEMF (scenar)	N	M + T	Y, 15–480 Hz	Y, PEMF		None found/offered	neshealth.com/2022-university-research neshealth.com/en/nes-science-papers **Patient testimonials:** neshealth.com/portal-page-client-offer **Practitioner testimonials:** neshealth.com/en	neshealth.com/en
Biophilia Tracker	PEMF	N	M + T	-	Y		None found/offered	-	biophiliatracker.com/Biophilia-Tracker-X4-MAX
Bio-Well Gas Discharge Visualization (GDV) camera	Gas Discharge Visualization (GDV)	N	M	Y	N		Not relevant (as non-emitting)	-	**GDV camera:** gdvcamera.com/gdvcamera-bio-well
Bio-Well Bio-Cor EHF	Vibroacoustic (VAT) and electromagnetic/milliwave	N	T	Y, GDV camera	Y, milliwave		Extremely high frequency (EHF) in the millimeter gigahertz range with a very low intensity; wavelengths specified in two regimes: 1.8+4.0+7.7+8.2+9.2 and 4.9+5.5+7.8+9.5 mm; duration of exposure specified	-	**Bio-Cor:** bio-well.com
Chiren 3.0 – Biophoton Light Therapy	Biophotonic	N	M + T	Y	Y, photon		Photons, 200–800 nm wavelength	biontology.com/research **Testimonials:** biontology.com/home/testimonials	biontology.com/biophoton-instruments/chiren-2
Energy Enhancement System (EES)	Other/scalar	N	T	-	Yes, scalar		None found/offered	eesystem.com/research **Testimonials:** eesystem.com/ee-experiences	eesystem.com
Harmonic Egg Healing	VAT/sound/music	N	T	N	Resonates up to 1,200 Hz		Frequency range and exposure duration given (most other parameters not relevant to acoustic devices)	**Testimonials:** harmonicegg.com/about-harmonic-egg-bio-healing/testimonials	harmonicegg.com
Healy Professional Edition	PEMF/bioresonance	N	M + T	N	Y, pulsed, multiple set programs		Stimulation output can vary between 10 V and +10 V, 0–1 MHz, 0–4 mA	-	eu.healy.shop
Holimed RemiWave Pro	PEMF/bioresonance	N	M + T	Y	Y, ?		0–1,000,000 Hz (1 MHz)	holimed.comeav-and-bioresonance-terminology-bioresonance-modes-a-and-ai	holimed.com/the-bioresonance-devices-of-holimed
iTeraCare Classic Wand by Prife	Thermal/non-thermal terahertz wave	N	T	N	Y, continuous		None found/offered	**Testimonials:** terahertz-device.com/iteracare-testimonials-reviews	prifeintl.com terahertz-device.com
Iyashi Zero Point Energy Wand	Other/scalar (subtle energy)	N	T	N	N		"Providing over 18000+ energetic frequencies" (frequency range unspecified)	**Testimonials:** iyashisource.com/iyashi-zero-point-energy-wand-c-53_3	iyashisource.com/iyashi-zero-point-energy-wand-c-53_3
Jellen Portable High Frequency Violet Ray Machine	Plasma	N	T	N	Y		Up to 200,000 Hz	-	jellenproducts.com/jellen-portable-high-frequency-machine-spa-grade/
MORA Nova	PEMF/bioresonance	N	M + T	Y, 0.1 Hz – 1 MHz	Y, ?		0.1 Hz – 1 MHz (Aid 0.1–1.000.000)	-	med-tronik.de/en moramedtech.co.uk/the-mora-nova-equipment
Oberon Biofeedback Gold	Plasma-based Rife	N	M + T	Y, 5–30 MHz	Y		Low-frequency 240 Hz. High-frequency 1.5–4.5 GHz	-	oberondiagnostic.com/oberon/the-product
PERL M+ and ProGen3 by Resonant Light Technology	Plasma-based Rife with ~2,000 frequency sets	N	M + T		Y, continuous or pulsed		Frequency generator with multiple programs that can generate sine, square or triangular waveforms from 1 Hz to 4,000,000 Hz with accessories; 1–300,000 Hz with PERL M+, which emits up to 300,000 Hz with 0.001 Hz accuracy, 27.120 Mhz with 1–1,000,000 Hz effective modulation; 11.05 m wavelength; amplitude 100 W peak to peak, modulated at targeted frequency; at a distance of 3 m, energy output was 95.8 dBuV, which translates to 1.008e-5 W/m^2, 1.008e-6 mW/cm^2, 2.065e-10 Tesla, 2.065e-6 Gauss at 3 m	resonantlight.com/frequency-101	resonantlight.com
Qest 4	Electromagnetic	N	M + T	-	Y		None found/offered	-	qest4.co.uk
Rayonex Biomedical Rayocomp PS10 Rayocomp PS 1000 Polar 4.0	PEMF	Y, IIa	M + T	Up to 3 GHz			Continuous sinusoidal wave form; frequency ≤ 3 GHz; wavelength can be calculated based on speed of light and frequency (specific number not available); depth of penetration, no specific parameter available, but clinical prospective, double-blind randomized and placebo-controlled study showed bioresonance can reach internal organs; localization, detectors made from a special cotton fabric with very fine stainless-steel wires; different sizes of detectors to allow placement on patient or patient can lie on it (in form of a fitted sheet); exposure typically 60 min	bioresonance.com/clinical-study bioresonance.com/#studies	bioresonance.com
Sensate	VAT wave therapy	N	T	N	Y, acoustic/vibratory		20–140 Hz acoustic (other parameters not relevant)	buy.getsensate.com/researchstudy **Testimonials:** getsensate.com/products/sensate2	getsensate.com/products/sensate2
Spooky2 Rife	Plasma-based Rife, scalar	N	M + T T	-	Y, PEMF		Up to 3.5 MHz	spooky2.com/rife-machine **Testimonials:** spooky2.com/rife-machine-success-stories-testimonials	spooky2.com/rife-machine
Vitatec Vitalfield Technology – Mito	PEMF	N	M + T	Y, < 1 Hz to > 10 GHz (into visible light spectrum)	Y, variable, 1 Hz – 120 GHz		Frequency < 1 Hz to 120 GHz, pulsed, variable; waveform variable (including triangle); wavelength 415 nm – 15 μm; intensity/induction 1.5 mT; gradient (dB/dt) 1.5 T/s; electric and electromagnetic components; depth of penetration from few mm to whole body; exposure 15–60 min	**Testimonials:** medtec.at/en/referenzen	vitatec.com/en medtec.at/en
Vitatec Vitalfield Technology – Global Diagnostics	PEMF	N	M + T	Y	1 Hz – 120 GHz		Electric (capacitive coupling) field; very variable emission pattern; frequency 0.1 Hz – 1 GHz; energetic value < 400 mV; depth of penetration whole body; exposure 15–50 min	**Testimonials:** medtec.at/en/referenzen	vitatec.com/en medtec.at/en

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