

TIME MASTER PRO®

CLINICAL TECHNOLOGY AT A GLANCE

A specification-led professional aesthetic platform.

Time Master Pro® combines disclosed **90 kHz low-frequency ultrasound**, ultrasound-assisted **sonophoresis**, published **EMS output**, and **three LED wavelengths plus sequential RGB flashing**. The professional value is not simply a feature list: it is transparent, measurable operating parameters that can be explained, trained, and integrated into repeatable protocols.



90 kHz 90,000 cycles/sec	EMS 70–90 μ A	LED 470 / 520 / 650 nm	4 LIGHT MODES Blue • Green • Red • RGB
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WHY 90 kHz MATTERS

Frequency influences wavelength, acoustic attenuation, cavitation behavior, pressure-field distribution, and tissue interaction. At 90 kHz, Time Master Pro® operates in the low-frequency ultrasound category discussed in sonophoresis and non-thermal acoustic applications. The disclosed frequency gives professionals a concrete engineering parameter rather than a vague “ultrasound” claim.

SONOPHORESIS: BARRIER SCIENCE

Low-frequency ultrasound is discussed in transdermal-delivery literature for mechanisms including acoustic cavitation, microstreaming, local mixing, temporary disruption of lipid organization, and increased diffusional pathways through the stratum corneum. Enhancement depends on frequency, intensity, coupling medium, treatment time, molecule size, formulation, and barrier condition, so universal absorption promises should be avoided.

PROFESSIONAL EMS: OUTPUT MATTERS

Time Master Pro® publishes Level 2 at **25 V / 70 μ A**, Level 3 at **30 V / 80 μ A**, and Level 4 at **40 V / 90 μ A**. Sensation alone is not engineering quality. Professional evaluation considers measurable output, consistency, contact, coupling, waveform, treatment design, and user tolerance.

PHOTOBIOMODULATION

The device discloses **blue 470 nm**, **green 520 nm**, and **red 650 nm**, plus sequential RGB flashing. Wavelength is only one variable in photobiomodulation; irradiance, energy density, exposure time, beam uniformity, distance, tissue optical properties, and treatment schedule also matter. The disclosed wavelengths support more transparent protocol education.

PROFESSIONAL EVALUATION BEGINS WHERE MARKETING LANGUAGE ENDS: MEASURABLE OPERATING PARAMETERS.

WHY TIME MASTER PRO® IS IN A CLASS OF ITS OWN

Evidence-informed technology. Transparent specifications. Professional protocols.

FOUR COMPLEMENTARY TECHNOLOGIES. ONE WORKFLOW.	Low-frequency ultrasound provides mechanical acoustic energy and supports sonophoretic delivery. EMS provides controlled low-level electrical stimulation. LED provides wavelength-specific photobiomodulation support. Sequential RGB flashing expands protocol flexibility by cycling multiple wavelengths within one treatment sequence.
MORE THAN A “STRONG FEELING”	A device can feel strong because of waveform design, contact instability, coupling, or higher current. Strong sensation alone does not prove professional performance. Time Master Pro® is positioned around controlled, disclosed parameters rather than sensory intensity.
PRODUCT PAIRING MATTERS	Sonophoresis cannot be separated from the topical formula and coupling medium used with the device. Slip, conductivity, molecular properties, viscosity, treatment time, and barrier condition influence protocol performance. The strongest professional use is as part of a structured treatment system, not as standalone hardware.
PROTOCOL BREADTH	The multimodal design supports professional narratives including hydration infusion, facial toning, skin revitalization, glow and pre-event treatments, post-care support, and maintenance programs. Each modality has a defined role within the sequence rather than functioning as interchangeable marketing features.
ENGINEERING TRANSPARENCY	Many devices use the same feature names while disclosing little about frequency, current, voltage, wavelength, or treatment mode. Time Master Pro® publishes its core specifications so distributors and practitioners can teach what is measured, not just what is promised.

SCIENTIFIC FOUNDATION

The supplied white paper cites literature on ultrasound-mediated transdermal delivery and low-frequency sonophoresis, photobiomodulation, red/near-infrared light, and microcurrent physiology. These sources support the scientific rationale of the technology categories. They should **not** be represented as device-specific clinical trials of Time Master Pro® unless separate device-specific studies are available.

Selected references: Polat BE et al., Journal of Controlled Release (2011); Polat BE et al., Advanced Drug Delivery Reviews (2010); Seah BCQ & Teo BM, International Journal of Nanomedicine (2018); Ablon G, Journal of Clinical and Aesthetic Dermatology (2018); Wunsch A & Matuschka K, Photomedicine and Laser Surgery (2014).

**A PROFESSIONAL DEVICE SHOULD EARN CONFIDENCE THROUGH ENGINEERING, EDUCATION, AND
TRANSPARENT SPECIFICATIONS.**

For professional education and distributor evaluation only. Not intended to diagnose, treat, cure, or prevent disease. AO MEDICAL